SCS-C01 $^{Q\&As}$

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QUESTION 1

A Network Load Balancer (NLB) target instance is not entering the InService state. A security engineer determines that health checks are failing.

Which factors could cause the health check failures? (Select THREE.)

A. The target instance\\'s security group does not allow traffic from the NLB.

B. The target instance\\'s security group is not attached to the NLB.

C. The NLB\\'s security group is not attached to the target instance.

D. The target instance\\'s subnet network ACL does not allow traffic from the NLB.

E. The target instance\\'s security group is not using IP addresses to allow traffic from the NLB.

F. The target network ACL is not attached to the NLB.

Correct Answer: ACD

QUESTION 2

An AWS account that is used for development projects has a VPC that contains two subnets. The first subnet is named public-subnet-1 and has the CIDR block 192.168.1.0/24 assigned. The other subnet is named private-subnet-2 and has the CIDR block 192.168.2.0/24 assigned. Each subnet contains Amazon EC2 instances.

Each subnet is currently using the VPC\\'s default network ACL. The security groups that the EC2 instances in these subnets use have rules that allow traffic between each instance where required. Currently, all network traffic flow is working as expected between the EC2 instances that are using these subnets.

A security engineer creates a new network ACL that is named subnet-2-NACL with default entries. The security engineer immediately configures private-subnet-2 to use the new network ACL and makes no other changes to the infrastructure. The security engineer starts to receive reports that the EC2 instances in public-subnet-1 and public-subnet-2 cannot communicate with each other.

Which combination of steps should the security engineer take to allow the EC2 instances that are running in these two subnets to communicate again? (Select TWO.)

A. Add an outbound allow rule for 192.168.2.0/24 in the VPC\\'s default network ACL.

B. Add an inbound allow rule for 192.168.2.0/24 in the VPC\\'s default network ACL.

C. Add an outbound allow rule for 192.168.2.0/24 in subnet-2-NACL.

D. Add an inbound allow rule for 192.168.1.0/24 in subnet-2-NACL.

E. Add an outbound allow rule for 192.168.1.0/24 in subnet-2-NACL.

Correct Answer: CE

The AWS documentation states that you can add an outbound allow rule for 192.168.2.0/24 in subnet-2-NACL and add an outbound allow rule for 192.168.1.0/24 in subnet-2-NACL. This will allow the EC2 instances that are running in these

two subnets to communicate again. References: : Amazon VPC User Guide

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QUESTION 3

A company is running workloads in a single IAM account on Amazon EC2 instances and Amazon EMR clusters a recent security audit revealed that multiple Amazon Elastic Block Store (Amazon EBS) volumes and snapshots are not encrypted

The company\\'s security engineer is working on a solution that will allow users to deploy EC2 Instances and EMR clusters while ensuring that all new EBS volumes and EBS snapshots are encrypted at rest. The solution must also minimize operational overhead

Which steps should the security engineer take to meet these requirements?

A. Create an Amazon Event Bridge (Amazon Cloud watch Events) event with an EC2 instance as the source and create volume as the event trigger. When the event is triggered invoke an IAM Lambda function to evaluate and notify the security engineer if the EBS volume that was created is not encrypted.

B. Use a customer managed IAM policy that will verify that the encryption ag of the Createvolume context is set to true. Apply this rule to all users.

C. Create an IAM Config rule to evaluate the conguration of each EC2 instance on creation or modication. Have the IAM Cong rule trigger an IAM Lambdafunction to alert the security team and terminate the instance it the EBS volume is not encrypted.

D. Use the IAM Management Console or IAM CLi to enable encryption by default for EBS volumes in each IAM Region where the company operates.

Correct Answer: D

QUESTION 4

You need to ensure that objects in an S3 bucket are available in another region. This is because of the criticality of the data that is hosted in the S3 bucket. How can you achieve this in the easiest way possible?

Please select:

A. Enable cross region replication for the bucket

B. Write a script to copy the objects to another bucket in the destination region

C. Create an S3 snapshot in the destination region

D. Enable versioning which will copy the objects to the destination region

Correct Answer: A

Option B is partially correct but a big maintenance over head to create and maintain a script when the functionality is already available in S3 Option C is invalid because snapshots are not available in S3 Option D is invalid because versioning will not replicate objects The AWS Documentation mentions the following Cross-region replication is a bucket-level configuration that enables automatic, asynchronous copying of objects across buck in different AWS Regions. For more information on Cross region replication in the Simple Storage Service, please visit the below URL: https://docs.aws.amazon.com/AmazonS3/latest/dev/crr.html The correct answer is: Enable cross region replication for

the bucket

QUESTION 5

A company is using AWS Systems Manager Session Manager to manage Amazon EC2 instances. A user is unable to connect to a new EC2 instance that runs Amazon Linux 2 in a private subnet in a newly created VPC. The user confirms that the new EC2 instance has the correct IAM instance profile attached.

What is the MOST likely root cause of the user\'s inability to connect?

A. The EC2 key pair on the instance is mismatched with the user\'s key.

B. The EC2 instance security group is missing SSH port 22 for inbound traffic.

C. The EC2 instance is in a private VPC and is missing the ssmmessages endpoint.

D. Amazon Linux 2 does not have Systems Manager Agent preinstalled.

Correct Answer: C

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