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QUESTION 1

A company is delivering web content from an Amazon EC2 instance in a public subnet with address 2001:db8:1:100::1. Users report they are unable to access the web content. The VPC Flow Logs for the subnet contain the following entries:

```
2 012345678912 eni-0596e500123456789 2001:db8:2:200::2 2001:db8:1:100::1 0 0 58 234 24336 1551299195
1551299434 ACCEPT OK 2 012345678912 eni-0596e500123456789 2001:db8:1:100::1 2001:db8:2:200::2 0 0 58 234
24336 1551299195 1551299434 REJECT OK
```

Which action will restore network reachability to the EC2 instance?

- A. Update the security group associated with eni-0596e500123456789 to permit inbound traffic.
- B. Update the security group associated with eni-0596e500123456789 to permit outbound traffic.
- C. Update the network ACL associated with the subnet to permit inbound traffic.
- D. Update the network ACL associated with the subnet to permit outbound traffic.

Correct Answer: C

QUESTION 2

An organization is using a VPC endpoint for Amazon S3. When the security group rules for a set of instances were initially configured, access was restricted to allow traffic only to the IP addresses of the Amazon S3 API endpoints in the region from the published JSON file. The application was working properly, but now is logging a growing number of timeouts when connecting with Amazon S3. No internet gateway is configured for the VPC.

Which solution will fix the connectivity failures with the LEAST amount of effort?

- A. Create a Lambda function to update the security group based on AmazonIPSpaceChanged notifications.
- B. Update the VPC routing to direct Amazon S3 prefix-list traffic to the VPC endpoint using the route table APIs.
- C. Update the application server's outbound security group to use the prefix-list for Amazon S3 in the same region.
- D. Create an additional VPC endpoint for Amazon S3 in the same route table to scale the concurrent connections to Amazon S3.

Correct Answer: C

QUESTION 3

A company requires connectivity between two workloads that are located in separate VPCs: VPC A and VPC B. The VPCs are located in the same AWS Region. A network engineer has configured a VPC peering relationship between the VPCs.



The network engineer is testing for connectivity by using the ping command from an Amazon EC2 instance in VPC A with address 10.1.1.1 to another EC2 instance in VPC B with address 10.2.2.2. The pings are timing out.

Which combination of steps should the network engineer take to troubleshoot the problem? (Choose three.)

- A. Ensure that the security group rules allow ICMP traffic from the source EC2 instance to the target EC2 instance.
- B. Ensure that the security group rules allow the flow of UDP traffic from the source EC2 instance to the target EC2 instance.
- C. Ensure that the network ACL rules allow ICMP traffic between the source EC2 instance and the target EC2 instance.
- D. Ensure that the security group rules allow the flow of TCP traffic from the source EC2 instance to the target EC2 instance.
- E. Verify that routes have been added to the respective VPC route tables to forward traffic that is destined for the other VPC through the peering connection.
- F. Configure the VPC peering settings to activate bidirectional traffic support.

Correct Answer: BDF

QUESTION 4

You have configured a dynamic VPN between your datacenter and your VPC. Your router says the tunnel is up and BGP is active, but for some reason, you are not seeing your routes propagate.

What is most likely the issue?

- A. You need to configure the firewall for BGP.
- B. Your router does not support BFD.
- C. You need to obtain a new BGP MD5 key.
- D. You forgot to set route propagation to "yes" in the route table.

Correct Answer: D

Explanation:

You forgot to set route propagation to "yes" in the route table. If the route table says BGP is active and the tunnel is up, then you do not have a firewall issue. BFD has nothing to do with route propagation. You do not need a BGP MD5 key for VPN.

QUESTION 5

Accompany has a public domain, company.com, that is hosted by a DNS provider. The company creates a public hosted zone, cloud.company.com, in Amazon Route 53. The company wants to keep all public AWS application DNS records under this hosted zone.



The company recently deployed its first public application behind an Elastic Load Balancer in its AWS environment. The domain name app1.cloud.company.com needs to access the application.

Which solution will meet these requirements?

- A. On the DNS provider, create A records for cloud under company.com. Point these records to Route 53 name server IP addresses of the public hosted zone. In Route 53, create an ALIAS (A) record for app1 under cloud.company.com. Point this record to the Elastic Load Balancer.
- B. On the DNS provider, create a subdomain for cloud under company.com. Create a CNAME record for app1 under cloud.company.com. Point this record to the Elastic Load Balancer public DNS name. In Route 53, create NS records for cloud.company.com. Point these records to the DNS provider name servers.
- C. On the DNS provider, create NS records for cloud under company.com. Point these records to Route 53 name servers of the public hosted zone. In Route 53, create an ALIAS (A) record for app1 under cloud.company.com. Point this record to the Elastic Load Balancer.
- D. On the DNS provider, create a subdomain for cloud under company.com. Create a CNAME record for app1 under cloud.company.com. Point this record to the Elastic Load Balancer public DNS name. In Route 53, create A records for cloud.company.com. Point these records to the DNS provider name servers.

Correct Answer: A

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