ANS-C01 Q&As

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QUESTION 1

A network engineer is designing the architecture for a healthcare company\\'s workload that is moving to the AWS Cloud. All data to and fromthe on-premises environment must be encrypted in transit. All traffic also must be inspected in the cloud before the traffic is allowed to leavethe cloud and travel to the on-premises environment or to the internet.The company will expose components of the workload to the internet so that patients can reserve appointments. The architecture must securethese components and protect them against DDoS attacks. The architecture also must provide protection against financial liability for servicesthat scale out during a DDoS event.Which combination of steps should the network engineer take to meet all these requirements for the workload? (Choose three.)

A. Use Traffic Mirroring to copy all traffic to a fleet of traffic capture appliances.

B. Set up AWS WAF on all network components.

C. Configure an AWS Lambda function to create Deny rules in security groups to block malicious IP addresses.

D. Use AWS Direct Connect with MACsec support for connectivity to the cloud.

E. Use Gateway Load Balancers to insert third-party firewalls for inline traffic inspection.

F. Configure AWS Shield Advanced and ensure that it is configured on all public assets.

Correct Answer: DEF

D https://docs.aws.amazon.com/directconnect/latest/UserGuide/MACsec.html E https://docs.aws.amazon.com/elasticloadbalancing/latest/gateway/introduction.html F https://docs.aws.amazon.com/waf/latest/developerguide/ddos-advanced-summary.html

QUESTION 2

A company uses Amazon Route 53 to host a public hosted zone for example.com. A network engineer recently reduced the TTL on severalrecords to 60 seconds. The network engineer wants to assess whether the change has increased the number of queries to Route 53 beyondthe expected levels that the company identified before the change. The network engineer must obtain the number of queries that have beenmade to the example.com public hosted zone.Which solution will provide this information?

A. Create a new trail in AWS CloudTrail to include Route 53 data events. Send logs to Amazon CloudWatch Logs. Set up a CloudWatchmetric filter to count the number of queries and create graphs.

B. Use Amazon CloudWatch to access the AWS/Route 53 namespace and to check the DNSQueries metric for the public hosted zone.

C. Use Amazon CloudWatch to access the AWS/Route 53 Resolver namespace and to check the InboundQueryVolume metric for a specificendpoint.

D. Configure logging to Amazon CloudWatch for the public hosted zone. Set up a CloudWatch metric filter to count the number of queriesand create graphs.

Correct Answer: B

CloudWatch metric for Route 53 public hosted zones The AWS/Route53 namespace includes the following metric for Route 53 hosted zones: https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/monitoring-hosted-zones-with-cloudwatch.html

QUESTION 3

A network engineer configures a second AWS Direct Connect connection to an existing network. The network engineer runs a test in the AWS Direct Connect Resiliency Toolkit on the connections. The test produces a failure. During the failover event, the network engineer observes a 90-second interruption before traffic shifts to the failover connection.

Which solution will reduce the time for failover?

A. Decrease the BGP hello timer to 5 seconds.

B. Add a VPN connection to the connectivity solution. Implement fast failover.

C. Configure Bidirectional Forwarding Detection (BFD) on the on-premises router.

D. Decrease the BGP hold-down timer to 5 seconds.

Correct Answer: C

QUESTION 4

A company has deployed a web application on AWS. The web application uses an Application Load Balancer (ALB) across multiple AvailabilityZones. The targets of the ALB are AWS Lambda functions. The web application also uses Amazon CloudWatch metrics for monitoring.Users report that parts of the web application are not loading properly. A network engineer needs to troubleshoot the problem. The networkengineer enables access logging for the ALB.What should the network engineer do next to determine which errors the ALB is receiving?

A. Send the logs to Amazon CloudWatch Logs. Review the ALB logs in CloudWatch Insights to determine which error messages the ALB isreceiving.

B. Configure the Amazon S3 bucket destination. Use Amazon Athena to determine which error messages the ALB is receiving.

C. Configure the Amazon S3 bucket destination. After Amazon CloudWatch Logs pulls the ALB logs from the S3 bucket automatically,review the logs in CloudWatch Logs to determine which error messages the ALB is receiving.

D. Send the logs to Amazon CloudWatch Logs. Use the Amazon Athena CloudWatch Connector to determine which error messages the ALBis receiving.

Correct Answer: B

Access logs is an optional feature of Elastic Load Balancing that is disabled by default. After you enable access logs for your load balancer, Elastic Load Balancing captures the logs and stores them in the Amazon S3 bucket that you specify as compressed files. You can disable access logs at any time.

https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-access-logs.html

QUESTION 5

A company is using a shared services VPC with two domain controllers. The domain controllers are deployed in the company\\'s privatesubnets. The company is deploying a new application into a new VPC in the account. The application will be deployed onto an Amazon EC2 forWindows Server instance in the new VPC. The instance must join

the existing Windows domain that is supported by the domain controllers inthe shared services VPC.A transit gateway is attached to both the shared services VPC and the new VPC. The company has updated the route tables for the transitgateway, the shared services VPC, and the new VPC. The security groups for the domain controllers and the instance are updated and allowtraffic only on the ports that are necessary for domain operations. The instance is unable to join the domain that is hosted on the domaincontrollers.Which combination of actions will help identify the cause of this issue with the LEAST operational overhead? (Choose two.)

A. Use AWS Network Manager to perform a route analysis for the transit gateway network. Specify the existing EC2 instance as the source.Specify the first domain controller as the destination. Repeat the route analysis for the second domain controller.

B. Use port mirroring with the existing EC2 instance as the source and another EC2 instance as the target to obtain packet captures of theconnection attempts.

C. Review the VPC flow logs on the shared services VPC and the new VPC.

D. Issue a ping command from one of the domain controllers to the existing EC2 instance.

E. Ensure that route propagation is turned off on the shared services VPC.

Correct Answer: AC

To identify the cause of this issue with the least operational overhead, you can use AWS Network Manager to perform a route analysis for the transit gateway network. You can specify the existing EC2 instance as the source and one of the domain controllers as the destination. You can repeat the route analysis for the second domain controller. This will help you verify if there is any routing issue between the EC2 instance and the domain controllers through the transit gateway.

You can also review the VPC flow logs on the shared services VPC and the new VPC. VPC flow logs capture information about accepted and rejected IP traffic in your VPCs. You can use VPC flow logs to troubleshoot connectivity issues or monitor network traffic in your VPCs. You can view VPC flow logs in Amazon CloudWatch Logs or Amazon S3.