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QUESTION 1

A company has a single VPC in the us-east-1 Region. The company is planning to set up a new VPC in the us-east-2 Region. The existing VPChas an AWS Site-to-Site VPN connection to the company\\'s on-premises environment and uses a virtual private gateway.A network engineer needs to implement a solution to establish connectivity between the existing VPC and the new VPC. The solution alsomust implement support for IPv6 for the new VPC. The company has new on-premises resources that need to connect to VPC resources byusing IPv6 addresses.Which solution will meet these requirements?

A. Create a new virtual private gateway in us-east-1. Attach the new virtual private gateway to the new VPC. Create two new Site-to-SiteVPN connections to the new virtual private gateway with IPv4 and IPv6 support. Configure routing between the VPCs by using VPCpeering.

B. Create a transit gateway in us-east-1 and in us-east-2. Attach the existing VPC and the new VPC to each transit gateway. Create a newSite-to-Site VPN connection to each transit gateway with IPv4 and IPv6 support. Configure transit gateway peering. Configure routingbetween the VPCs and the on-premises environment.

C. Create a new virtual private gateway in us-east-2. Attach the new virtual private gateway to the new VPCreate two new Site-to-Site VPNconnections to the new virtual private gateway with IPv4 and IPv6 support. Configure routing between the VPCs by using VPC peering.

D. Create a transit gateway in us-east-1. Attach the existing VPC and the new VPC to the transit gateway. Create two new Site-to-Site VPNconnections to the transit gateway with IPv4 and IPv6 support. Configure transit gateway peering. Configure routing between the VPCsand the on-premises environment.

Correct Answer: B

Transit gateway attachment can only be in the same region as the TGW itself.

QUESTION 2

A company hosts an application on Amazon EC2 instances behind an Application Load Balancer (ALB). The company recently experienced anetwork security breach. A network engineer must collect and analyze logs that include the client IP address, target IP address, target port,and user agent of each user that accesses the application.What is the MOST operationally efficient solution that meets these requirements?

A. Configure the ALB to store logs in an Amazon S3 bucket. Download the files from Amazon S3, and use a spreadsheet application toanalyze the logs.

B. Configure the ALB to push logs to Amazon Kinesis Data Streams. Use Amazon Kinesis Data Analytics to analyze the logs.

C. Configure Amazon Kinesis Data Streams to stream data from the ALB to Amazon OpenSearch Service (Amazon Elasticsearch Service).Use search operations in Amazon OpenSearch Service (Amazon Elasticsearch Service) to analyze the data.

D. Configure the ALB to store logs in an Amazon S3 bucket. Use Amazon Athena to analyze the logs in Amazon S3.

Correct Answer: D

https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-access-logs.html
https://repost.aws/knowledge-center/athena-analyze-access-logs

QUESTION 3

A network engineer needs to build an encrypted connection between an on-premises data center and a VPC. The network engineer attachesthe VPC to a virtual private gateway and sets up an AWS Site-to-Site VPN connection. The VPN tunnel is UP after configuration and is working.However, during rekey for phase 2 of the VPN negotiation, the customer gateway device is receiving different parameters than the parametersthat the device is configured to support.The network engineer checks the IPsec configuration of the VPN tunnel. The network engineer notices that the customer gateway device isconfigured with the most secure encryption algorithms that the AWS Site-to-Site VPN configuration file provides.What should the network engineer do to troubleshoot and correct the issue?

A. Check the native virtual private gateway logs. Restrict the VPN tunnel options to the specific VPN parameters that the virtual privategateway requires.

B. Check the native customer gateway logs. Restrict the VPN tunnel options to the specific VPN parameters that the customer gatewayrequires.

C. Check Amazon CloudWatch logs of the virtual private gateway. Restrict the VPN tunnel options to the specific VPN parameters that thevirtual private gateway requires.

D. Check Amazon CloudWatch logs of the customer gateway. Restrict the VPN tunnel options to the specific VPN parameters that thecustomer gateway requires.

Correct Answer: B

You check Cloudwatch for AWS resources or your native/on-prem logs for your on prem resource. AandD is out.

The problem statement indicates that customer gateway is misconfigured. So you need to work on Customer gateway.

QUESTION 4

A company has a transit gateway in AWS Account A. The company uses AWS Resource Access Manager (AWS RAM) to share the transit gateway so that users in other accounts can connect to multiple VPCs in the same AWS Region. AWS Account B contains a VPC (10.0.0.0/16) with subnet 10.0.0.0/24 in the us-west-2a Availability Zone and subnet 10.0.1.0/24 in the us-west-2b Availability Zone. Resources in these subnets can communicate with other VPCs.

A network engineer creates two new subnets: 10.0.2.0/24 in the us-west-2b Availability Zone and 10.0.3.0/24 in the us-west-2c Availability Zone. All the subnets share one route table. The default route 0.0.0.0/0 is pointing to the transit gateway. Resources in subnet 10.0.2.0/24 can communicate with other VPCs, but resources in subnet 10.0.3.0/24 cannot communicate with other VPCs.

What should the network engineer do so that resources in subnet 10.0.3.0/24 can communicate with other VPCs?

A. In Account B, add 10.0.2.0/24 and 10.0.3.0/24 as the destinations to the route table. Use the transit gateway as the target.

B. In Account B, update the transit gateway attachment. Attach the new subnet ID that is associated with us-west-2c to Account B\\'s VPC.

C. In Account A, create a static route for 10.0.3.0/24 in the transit gateway route tables.

D. In Account A, recreate propagation for 10.0.0.0/16 in the transit gateway route tables.

Correct Answer: C

QUESTION 5

A team of infrastructure engineers wants to automate the deployment of Application Load Balancer (ALB) components by using the AWSCloud Development Kit (AWS CDK). The CDK application must deploy an infrastructure stack that is reusable and consistent across multipleenvironments, AWS Regions, and AWS accounts.The lead network architect on the project has already bootstrapped the target accounts. The lead network architect also has deployed corenetwork components such as VPCs and Amazon Route 53 private hosted zones across the multiple environments and Regions. Theinfrastructure engineers must design the ALB components in the CDK application to use the existing core network components.Which combination of steps will meet this requirement with the LEAST manual effort between environment deployments? (Choose two.)

A. Design the CDK application to read AWS CloudFormation parameters for the values that vary across environments and Regions.Reference these variables in the CDK stack for resources that require the variables.

B. Design the CDK application to read environment variables that contain account and Region details at runtime. Use these variables asproperties of the CDK stack. Use context methods in the CDK stack to retrieve variable values.

C. Create a dedicated account for shared application services in the multi-account environment. Deploy a CDK pipeline to the dedicatedaccount. Create stages in the pipeline that deploy the CDK application across different environments and Regions.

D. Write a script that automates the deployment of the CDK application across multiple environments and Regions. Distribute the script toengineers who are working on the project.

E. Use the CDK toolkit locally to deploy stacks to each environment and Region. Use the --context flag to pass in variables that the CDKapplication can reference at runtime.

Correct Answer: BC

Multi account = AWS organization Fetch such values automatically in CDK via contexts
https://docs.aws.amazon.com/cdk/v2/guide/context.html