

## AWS-Certified-Advanced-Networking-Specialty Dumps

### Amazon AWS Certified Advanced Networking - Specialty

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**NEW QUESTION 1**

A company is running multiple workloads on Amazon EC2 instances in public subnets. In a recent incident, an attacker exploited an application vulnerability on one of the EC2 instances to gain access to the instance. The company fixed the application and launched a replacement EC2 instance that contains the updated application.

The attacker used the compromised application to spread malware over the internet. The company became aware of the compromise through a notification from AWS. The company needs the ability to identify when an application that is deployed on an EC2 instance is spreading malware.

Which solution will meet this requirement with the LEAST operational effort?

- A. Use Amazon GuardDuty to analyze traffic patterns by inspecting DNS requests and VPC flow logs.
- B. Use Amazon GuardDuty to deploy AWS managed decoy systems that are equipped with the most recent malware signatures.
- C. Set up a Gateway Load Balance
- D. Run an intrusion detection system (IDS) appliance from AWS Marketplace on Amazon EC2 for traffic inspection.
- E. Configure Amazon Inspector to perform deep packet inspection of outgoing traffic.

**Answer:** A

**Explanation:**

This solution involves using Amazon GuardDuty to monitor network traffic and analyze DNS requests and VPC flow logs for suspicious activity. This will allow the company to identify when an application is spreading malware by monitoring the network traffic patterns associated with the instance. GuardDuty is a fully managed threat detection service that continuously monitors for malicious activity and unauthorized behavior in your AWS accounts and workloads. It requires minimal setup and configuration and can be integrated with other AWS services for automated remediation. This solution requires the least operational effort compared to the other options

**NEW QUESTION 2**

A government contractor is designing a multi-account environment with multiple VPCs for a customer. A network security policy requires all traffic between any two VPCs to be transparently inspected by a third-party appliance.

The customer wants a solution that features AWS Transit Gateway. The setup must be highly available across multiple Availability Zones, and the solution needs to support automated failover. Furthermore, asymmetric routing is not supported by the inspection appliances.

Which combination of steps is part of a solution that meets these requirements? (Choose two.)

- A. Deploy two clusters that consist of multiple appliances across multiple Availability Zones in a designated inspection VP
- B. Connect the inspection VPC to the transit gateway by using a VPCattachmen
- C. Create a target group, and register the appliances with the target grou
- D. Create a Network Load Balancer (NLB), and set it up to forward to the newly created target grou
- E. Configure a default route in the inspection VPCs transit gateway subnet toward the NLB.
- F. Deploy two clusters that consist of multiple appliances across multiple Availability Zones in a designated inspection VP
- G. Connect the inspection VPC to the transit gateway by using a VPC attachmen
- H. Create a target group, and register the appliances with the target grou
- I. Create a Gateway Load Balancer, and set it up to forward to the newly created target grou
- J. Configure a default route in the inspection VPC's transit gateway subnet toward the Gateway Load Balancer endpoint.
- K. Configure two route tables on the transit gatewa
- L. Associate one route table with all the attachments of the application VPC
- M. Associate the other route table with the inspection VPC's attachmen
- N. Propagate all VPC attachments into the inspection route tabl
- O. Define a static default route in the application route tabl
- P. Enable appliance mode on the attachment that connects the inspection VPC.
- Q. Configure two route tables on the transit gatewa
- R. Associate one route table with all the attachments of the application VPC
- S. Associate the other route table with the inspection VPCs attachmen
- T. Propagate all VPC attachments into the application route tabl
- . Define a static default route in the inspection route tabl
- . Enable appliance mode on the attachment that connects the inspection VPC.
- . Configure one route table on the transit gatewa
- . Associate the route table with all the VPC
- . Propagate all VPC attachments into the route tabl
- . Define a static default route in the route table.

**Answer:** BC

**NEW QUESTION 3**

An ecommerce company is hosting a web application on Amazon EC2 instances to handle continuously changing customer demand. The EC2 instances are part of an Auto Scaling group. The company wants to implement a solution to distribute traffic from customers to the EC2 instances. The company must encrypt all traffic at all stages between the customers and the application servers. No decryption at intermediate points is allowed.

Which solution will meet these requirements?

- A. Create an Application Load Balancer (ALB). Add an HTTPS listener to the AL
- B. Configure the Auto Scaling group to register instances with the ALB's target group.
- C. Create an Amazon CloudFront distributio
- D. Configure the distribution with a custom SSL/TLS certificat
- E. Set the Auto Scaling group as the distribution's origin.
- F. Create a Network Load Balancer (NLB). Add a TCP listener to the NL
- G. Configure the Auto Scaling group to register instances with the NLB's target group.
- H. Create a Gateway Load Balancer (GLB). Configure the Auto Scaling group to register instances with the GLB's target group.

**Answer:** C

**Explanation:**

To distribute traffic from customers to EC2 instances in an Auto Scaling group and encrypt all traffic at all stages between the customers and the application

servers without decryption at intermediate points, the company should create a Network Load Balancer (NLB) with a TCP listener and configure the Auto Scaling group to register instances with the NLB's target group (Option C). This solution allows for end-to-end encryption of traffic without decryption at intermediate points.

#### NEW QUESTION 4

A company is migrating an existing application to a new AWS account. The company will deploy the application in a single AWS Region by using one VPC and multiple Availability Zones. The application will run on Amazon EC2 instances. Each Availability Zone will have several EC2 instances. The EC2 instances will be deployed in private subnets.

The company's clients will connect to the application by using a web browser with the HTTPS protocol. Inbound connections must be distributed across the Availability Zones and EC2 instances. All connections from the same client session must be connected to the same EC2 instance. The company must provide end-to-end encryption for all connections between the clients and the application by using the application SSL certificate.

Which solution will meet these requirements?

- A. Create a Network Load Balance
- B. Create a target grou
- C. Set the protocol to TCP and the port to 443 for the target grou
- D. Turn on session affinity (sticky sessions). Register the EC2 instances as target
- E. Create a listene
- F. Set the protocol to TCP and the port to 443 for the listene
- G. Deploy SSL certificates to the EC2 instances.
- H. Create an Application Load Balance
- I. Create a target grou
- J. Set the protocol to HTTP and the port to 80 for the target grou
- K. Turn on session affinity (sticky sessions) with an application-based cookie polic
- L. Register the EC2 instances as target
- M. Create an HTTPS listene
- N. Set the default action to forward to the target grou
- O. Use AWS Certificate Manager (ACM) to create a certificatefor the listener.
- P. Create a Network Load Balance
- Q. Create a target grou
- R. Set the protocol to TLS and the port to 443 for the target grou
- S. Turn on session affinity (sticky sessions). Register the EC2 instances as target
- T. Create a listene
- . Set the protocol to TLS and the port to 443 for the listene
- . Use AWS Certificate Manager (ACM) to create a certificate for the application.
- . Create an Application Load Balance
- . Create a target grou
- . Set the protocol to HTTPS and the port to 443 for the target grou
- . Turn on session affinity (sticky sessions) with an application-based cookie polic
- . Register the EC2 instances as target
- . Create an HTTP listene
- . Set the port to 443 for the listene
- . Set the default action to forward to the target group.

**Answer:** A

#### NEW QUESTION 5

A network engineer needs to standardize a company's approach to centralizing and managing interface VPC endpoints for private communication with AWS services. The company uses AWS Transit Gateway for inter-VPC connectivity between AWS accounts through a hub-and-spoke model. The company's network services team must manage all Amazon Route 53 zones and interface endpoints within a shared services AWS account. The company wants to use thiscentralized model to provide AWS resources with access to AWS Key Management Service (AWS KMS) without sending traffic over the public internet. What should the network engineer do to meet these requirements?

- A. In the shared services account, create an interface endpoint for AWS KM
- B. Modify the interface endpoint by disabling the private DNS nam
- C. Create a private hosted zone in the shared services account with an alias record that points to the interface endpoin
- D. Associate the private hosted zone with the spoke VPCs in each AWS account.
- E. In the shared services account, create an interface endpoint for AWS KM
- F. Modify the interface endpoint by disabling the private DNS nam
- G. Create a private hosted zone in each spoke AWS account with an alias record that points to the interface endpoin
- H. Associate each private hosted zone with the shared services AWS account.
- I. In each spoke AWS account, create an interface endpoint for AWS KM
- J. Modify each interface endpoint by disabling the private DNS nam
- K. Create a private hosted zone in each spoke AWS account with an alias record that points to each interface endpoin
- L. Associate each private hosted zone with the shared services AWS account.
- M. In each spoke AWS account, create an interface endpoint for AWS KM
- N. Modify each interface endpoint by disabling the private DNS nam
- O. Create a private hosted zone in the shared services account with an alias record that points to each interface endpoin
- P. Associate the private hosted zone with the spoke VPCs in each AWS account.

**Answer:** A

#### NEW QUESTION 6

A company has an AWS Direct Connect connection between its on-premises data center in the United States (US) and workloads in the us-east-1 Region. The connection uses a transit VIF to connect the data center to a transit gateway in us-east-1.

The company is opening a new office in Europe with a new on-premises data center in England. A Direct Connect connection will connect the new data center with some workloads that are running in a single VPC in the eu-west-2 Region. The company needs to connect the US data center and us-east-1 with the Europe data center and eu-west-2. A network engineer must establish full connectivity between the data centers and Regions with the lowest possible latency.

How should the network engineer design the network architecture to meet these requirements?

- A. Connect the VPC in eu-west-2 with the Europe data center by using a Direct Connect gateway and a private VI
- B. Associate the transit gateway in us-east-1 with the same Direct Connect gatewa
- C. Enable SiteLink for the transit VIF and the private VIF.
- D. Connect the VPC in eu-west-2 to a new transit gatewa
- E. Connect the Europe data center to the new transit gateway by using a Direct Connect gateway and a new transit VI
- F. Associate the transit gateway in us-east-1 with the same Direct Connect gatewa
- G. Enable SiteLink for both transit VIF
- H. Peer the two transit gateways.
- I. Connect the VPC in eu-west-2 to a new transit gatewa
- J. Connect the Europe data center to the new transit gateway by using a Direct Connect gateway and a new transit VI
- K. Create a new Direct Connect gatewa
- L. Associate the transit gateway in us-east-1 with the new Direct Connect gatewa
- M. Enable SiteLink for both transit VIF
- N. Peer the two transit gateways.
- O. Connect the VPC in eu-west-2 with the Europe data center by using a Direct Connect gateway and a private VI
- P. Create a new Direct Connect gatewa
- Q. Associate the transit gateway in us-east-1 with the new Direct Connect gatewa
- R. Enable SiteLink for the transit VIF and the private VIF.

**Answer:** C

#### NEW QUESTION 7

A company has deployed a web application on AWS. The web application uses an Application Load Balancer (ALB) across multiple Availability Zones. 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 network engineer 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 Log
- B. Review the ALB logs in CloudWatch Insights to determine which error messages the ALB is receiving.
- C. Configure the Amazon S3 bucket destinatio
- D. Use Amazon Athena to determine which error messages the ALB is receiving.
- E. Configure the Amazon S3 bucket destinatio
- F. 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.
- G. Send the logs to Amazon CloudWatch Log
- H. Use the Amazon Athena CloudWatch Connector todetermine which error messages the ALB is receiving.

**Answer:** B

#### Explanation:

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>

#### NEW QUESTION 8

An insurance company is planning the migration of workloads from its on-premises data center to the AWS Cloud. The company requires end-to-end domain name resolution. Bi-directional DNS resolution between AWS and the existing on-premises environments must be established. The workloads will be migrated into multiple VPCs. The workloads also have dependencies on each other, and not all the workloads will be migrated at the same time.

Which solution meets these requirements?

- A. Configure a private hosted zone for each application VPC, and create the requisite record
- B. Create a set of Amazon Route 53 Resolver inbound and outbound endpoints in an egress VP
- C. Define Route 53 Resolver rules to forward requests for the on-premises domains to the on-premises DNS resolve
- D. Associate the application VPC private hosted zones with the egress VPC, and share the Route 53 Resolver rules with the application accounts by using AWS Resource Access Manage
- E. Configure the on-premises DNS servers to forward the cloud domains to the Route 53 inboundendpoints.
- F. Configure a public hosted zone for each application VPC, and create the requisite record
- G. Create a set of Amazon Route 53 Resolver inbound and outbound endpoints in an egress VP
- H. Define Route 53 Resolver rules to forward requests for the on-premises domains to the on-premises DNS resolve
- I. Associate the application VPC private hosted zones with the egress VP
- J. and share the Route 53 Resolver rules with the application accounts by using AWS Resource Access Manage
- K. Configure the on-premises DNS servers to forward the cloud domains to the Route 53 inbound endpoints.
- L. Configure a private hosted zone for each application VPC, and create the requisite record
- M. Create a set of Amazon Route 53 Resolver inbound and outbound endpoints in an egress VPDefine Route 53 Resolver rules to forward requests for the on-premises domains to the on-premises DNS resolve
- N. Associate the application VPC private hosted zones with the egress VPand s

**Answer:** A

#### Explanation:

Creating a private hosted zone for each application VPC and creating the requisite records would enable end-to-end domain name resolution for the resources. Creating a set of Amazon Route 53 Resolver inbound and outbound endpoints in an egress VPC would enable bi-directional DNS resolution between AWS and the existing on-premises environments. Defining Route 53 Resolver rules to forward requests for the on-premises domains to the on-premises DNS resolver would enable DNS queries from AWS resources to on-premises resources. Associating the application VPC private hosted zones with the egress VPC and sharing the Route 53 Resolver rules with the application accounts by using AWS Resource Access Manager would enable DNS queries among different VPCs and accounts. Configuring the on-premises DNS servers to forward the cloud domains to the Route 53 inbound endpoints would enable DNS queries from on-premises resources to AWS resources1.

#### NEW QUESTION 9



Your organization has a newly installed 1-Gbps AWS Direct Connect connection. You order the cross-connect from the Direct Connect location provider to the port on your router in the same facility. To enable the use of your first virtual interface, your router must be configured appropriately. What are the minimum requirements for your router?

- A. 1-Gbps Multi Mode Fiber Interface, 802.1Q VLAN, Peer IP Address, BGP Session with MD5.
- B. 1-Gbps Single Mode Fiber Interface, 802.1Q VLAN, Peer IP Address, BGP Session with MD5.
- C. IPsec Parameters, Pre-Shared key, Peer IP Address, BGP Session with MD5
- D. BGP Session with MD5, 802.1Q VLAN, Route-Map, Prefix List, IPsec encrypted GRE Tunnel

**Answer: B**

#### NEW QUESTION 10

A software-as-a-service (SaaS) provider hosts its solution on Amazon EC2 instances within a VPC in the AWS Cloud. All of the provider's customers also have their environments in the AWS Cloud.

A recent design meeting revealed that the customers have IP address overlap with the provider's AWS deployment. The customers have stated that they will not share their internal IP addresses and that they do not want to connect to the provider's SaaS service over the internet.

Which combination of steps is part of a solution that meets these requirements? (Choose two.)

- A. Deploy the SaaS service endpoint behind a Network Load Balancer.
- B. Configure an endpoint service, and grant the customers permission to create a connection to the endpoint service.
- C. Deploy the SaaS service endpoint behind an Application Load Balancer.
- D. Configure a VPC peering connection to the customer VPC
- E. Route traffic through NAT gateways.
- F. Deploy an AWS Transit Gateway, and connect the SaaS VPC to it
- G. Share the transit gateway with the customer
- H. Configure routing on the transit gateway.

**Answer: AB**

#### Explanation:

NLB for creating the private link which solves the overlapping IP address issue and the SaaS service endpoint behind it. (the SaaS endpoint could be an ALB)  
<https://aws.amazon.com/about-aws/whats-new/2021/09/application-load-balancer-aws-privatelink-static-ip>

#### NEW QUESTION 10

A company has two AWS accounts one for Production and one for Connectivity. A network engineer needs to connect the Production account VPC to a transit gateway in the Connectivity account. The feature to auto accept shared attachments is not enabled on the transit gateway.

Which set of steps should the network engineer follow in each AWS account to meet these requirements?

- A. \* 1. In the Production account: Create a resource share in AWS Resource Access Manager for the transit gateway
- B. Provide the Connectivity account ID
- C. Enable the feature to allow external accounts\* 2. In the Connectivity account: Accept the resource.\* 3. In the Connectivity account: Create an attachment to the VPC subnets.\* 4. In the Production account: Accept the attachment
- D. Associate a route table with the attachment.
- E. \* 1. In the Production account: Create a resource share in AWS Resource Access Manager for the VPC subnet
- F. Provide the Connectivity account ID
- G. Enable the feature to allow external accounts.\* 2. In the Connectivity account: Accept the resource.\* 3. In the Production account: Create an attachment on the transit gateway to the VPC subnets.\* 4. In the Connectivity account: Accept the attachment
- H. Associate a route table with the attachment.
- I. \* 1. In the Connectivity account: Create a resource share in AWS Resource Access Manager for the VPC subnet
- J. Provide the Production account ID
- K. Enable the feature to allow external accounts.\* 2. In the Production account: Accept the resource.\* 3. In the Connectivity account: Create an attachment on the transit gateway to the VPC subnets.\* 4. In the Production account: Accept the attachment
- L. Associate a route table with the attachment.
- M. \* 1. In the Connectivity account: Create a resource share in AWS Resource Access Manager for the transit gateway
- N. Provide the Production account ID Enable the feature to allow external accounts.\* 2. In the Production account: Accept the resource.\* 3. In the Production account: Create an attachment to the VPC subnets.\* 4. In the Connectivity account: Accept the attachment
- O. Associate a route table with the attachment.

**Answer: A**

#### Explanation:

step 1: In the Production account, create a resource share in AWS Resource Access Manager for the transit gateway and provide the Connectivity account ID. Enabling the feature to allow external accounts is also required to share resources between accounts. Step 2: In the Connectivity account, accept the shared resource. This action will allow the Production account to use the transit gateway in the Connectivity account. Step 3: In the Connectivity account, create an attachment to the VPC subnets. This attachment will enable communication between the VPC in the Production account and the transit gateway in the Connectivity account. Step 4: In the Production account, accept the attachment and associate a route table with the attachment. This will enable the VPC to route traffic through the transit gateway to other resources in the Connectivity account.

#### NEW QUESTION 14

A company uses a 1 Gbps AWS Direct Connect connection to connect its AWS environment to its on-premises data center. The connection provides employees with access to an application VPC that is hosted on AWS. Many remote employees use a company-provided VPN to connect to the data center. These employees are reporting slowness when they access the application during business hours. On-premises users have started to report similar slowness while they are in the office.

The company plans to build an additional application on AWS. On-site and remote employees will use the additional application. After the deployment of this additional application, the company will need 20% more bandwidth than the company currently uses. With the increased usage, the company wants to add resiliency to the AWS connectivity. A network engineer must review the current implementation and must make improvements within a limited budget.

What should the network engineer do to meet these requirements MOST cost-effectively?

- A. Set up a new 1 Gbps Direct Connect dedicated connection to accommodate the additional traffic load from remote employees and the additional application
- B. Create a link aggregation group (LAG).

- C. Deploy an AWS Site-to-Site VPN connection to the application VP
- D. Configure the on-premises routing for the remote employees to connect to the Site-to-Site VPN connection.
- E. Deploy Amazon Workspaces into the application VPI
- F. Replace the existing 1 Gbps Direct Connect connection with two new 2 Gbps Direct Connect hosted connection
- G. Create an AWS Client VPN endpoint in the application VP
- H. Instruct the remote employees to connect to the Client VPN endpoint.

**Answer:** A

**Explanation:**

Setting up a new 1 Gbps Direct Connect dedicated connection to accommodate the additional trafficload from remote employees and the additional application would provide more bandwidth and lower latency than a VPN connection over the public internet1. Creating a link aggregation group (LAG) with the existing and new Direct Connect connections would provide resiliency and redundancy for the AWS connectivity2.

**NEW QUESTION 16**

A company is building its website on AWS in a single VPC. The VPC has public subnets and private subnets in two Availability Zones. The website has static content such as images. The company is using Amazon S3 to store the content.

The company has deployed a fleet of Amazon EC2 instances as web servers in a private subnet. The EC2 instances are in an Auto Scaling group behind an Application Load Balancer. The EC2 instances will serve traffic, and they must pull content from an S3 bucket to render the webpages. The company is using AWS Direct Connect with a public VIF for on-premises connectivity to the S3 bucket.

A network engineer notices that traffic between the EC2 instances and Amazon S3 is routing through a NAT gateway. As traffic increases, the company's costs are increasing. The network engineer needs to change the connectivity to reduce the NAT gateway costs that result from the traffic between the EC2 instances and Amazon S3.

Which solution will meet these requirements?

- A. Create a Direct Connect private VI
- B. Migrate the traffic from the public VIF to the private VIF.
- C. Create an AWS Site-to-Site VPN tunnel over the existing public VIF.
- D. Implement interface VPC endpoints for Amazon S3. Update the VPC route table.
- E. Implement gateway VPC endpoints for Amazon S3. Update the VPC route table.

**Answer:** D

**NEW QUESTION 21**

A company has deployed a software-defined WAN (SD-WAN) solution to interconnect all of its offices. The company is migrating workloads to AWS and needs to extend its SD-WAN solution to support connectivity to these workloads.

A network engineer plans to deploy AWS Transit Gateway Connect and two SD-WAN virtual appliances to provide this connectivity. According to company policies, only a single SD-WAN virtual appliance can handle traffic from AWS workloads at a given time.

How should the network engineer configure routing to meet these requirements?

- A. Add a static default route in the transit gateway route table to point to the secondary SD-WAN virtual applianc
- B. Add routes that are more specific to point to the primary SD-WAN virtual appliance.
- C. Configure the BGP community tag 7224:7300 on the primary SD-WAN virtual appliance for BGP routes toward the transit gateway.
- D. Configure the AS\_PATH prepend attribute on the secondary SD-WAN virtual appliance for BGP routes toward the transit gateway.
- E. Disable equal-cost multi-path (ECMP) routing on the transit gateway for Transit Gateway Connect.

**Answer:** A

**NEW QUESTION 24**

A company is deploying an application. The application is implemented in a series of containers in an Amazon Elastic Container Service (Amazon ECS) cluster. The company will use the Fargate launch type for its tasks. The containers will run workloads that require connectivity initiated over an SSL connection. Traffic must be able to flow to the application from other AWS accounts over private connectivity. The application must scale in a manageable way as more consumers use the application.

Which solution will meet these requirements?

- A. Choose a Gateway Load Balancer (GLB) as the type of load balancer for the ECS servic
- B. Create a lifecycle hook to add new tasks to the target group from Amazon ECS as required to handle scalin
- C. Specify the GLB in the service definitio
- D. Create a VPC peer for external AWS account
- E. Update the route tables so that the AWS accounts can reach the GLB.
- F. Choose an Application Load Balancer (ALB) as the type of load balancer for the ECS servic
- G. Create path-based routing rules to allow the application to target the containers that are registered in the target grou
- H. Specify the ALB in the service definitio
- I. Create a VPC endpoint service for the ALB Share the VPC endpoint service with other AWS accounts.
- J. Choose an Application Load Balancer (ALB) as the type of load balancer for the ECS servic
- K. Create path-based routing rules to allow the application to target the containers that are registered in the target grou
- L. Specify the ALB in the service definitio
- M. Create a VPC peer for the external AWS account
- N. Update the route tables so that the AWS accounts can reach the ALB.
- O. Choose a Network Load Balancer (NLB) as the type of load balancer for the ECS servic
- P. Specify the NLB in the service definitio
- Q. Create a VPC endpoint service for the NL
- R. Share the VPC endpoint service with other AWS accounts.

**Answer:** D

**NEW QUESTION 27**

A company is hosting an application on Amazon EC2 instances behind an Application Load Balancer. The instances are in an Amazon EC2 Auto Scaling group. Because of a recent change to a security group, external users cannot access the application.

A network engineer needs to prevent this downtime from happening again. The network engineer must implement a solution that remediates noncompliant changes to security groups.

Which solution will meet these requirements?

- A. Configure Amazon GuardDuty to detect inconsistencies between the desired security group configuration and the current security group configuration
- B. Create an AWS Systems Manager Automation runbook to remediate noncompliant security groups.
- C. Configure an AWS Config rule to detect inconsistencies between the desired security group configuration and the current security group configuration
- D. Configure AWS OpsWorks for Chef to remediate noncompliant security groups.
- E. Configure Amazon GuardDuty to detect inconsistencies between the desired security group configuration and the current security group configuration
- F. Configure AWS OpsWorks for Chef to remediate noncompliant security groups.
- G. Configure an AWS Config rule to detect inconsistencies between the desired security group configuration and the current security group configuration
- H. Create an AWS Systems Manager Automation runbook to remediate noncompliant security groups.

**Answer: D**

**Explanation:**

Configuring an AWS Config rule to detect inconsistencies between the desired security group configuration and the current security group configuration would enable evaluation of the compliance status of the security groups based on predefined or custom rules<sup>3</sup>. Creating an AWS Systems Manager Automation runbook to remediate noncompliant security groups would enable automation of the remediation process<sup>2</sup>. Additionally, configuring AWS Config to trigger the runbook when a noncompliant change is detected would enable timely and consistent remediation of security group changes.

**NEW QUESTION 29**

A network engineer must provide additional safeguards to protect encrypted data at Application Load Balancers (ALBs) through the use of a unique random session key.

What should the network engineer do to meet this requirement?

- A. Change the ALB security policy to a policy that supports TLS 1.2 protocol only
- B. Use AWS Key Management Service (AWS KMS) to encrypt session keys
- C. Associate an AWS WAF web ACL with the ALB
- D. and create a security rule to enforce forward secrecy (FS)
- E. Change the ALB security policy to a policy that supports forward secrecy (FS)

**Answer: D**

**NEW QUESTION 34**

A company has deployed its AWS environment in a single AWS Region. The environment consists of a few hundred application VPCs, a shared services VPC, and a VPN connection to the company's on-premises environment. A network engineer needs to implement a transit gateway with the following requirements:

- Application VPCs must be isolated from each other.
  - Bidirectional communication must be allowed between the application VPCs and the on-premises network.
  - Bidirectional communication must be allowed between the application VPCs and the shared services VPC. The network engineer creates the transit gateway with options disabled for default route table association and default route table propagation. The network engineer also creates the VPN attachment for the on-premises network and creates the VPC attachments for the application VPCs and the shared services VPC.
- The network engineer must meet all the requirements for the transit gateway by designing a solution that needs the least number of transit gateway route tables. Which combination of actions should the network engineer perform to accomplish this goal?(Choose two.)

- A. Configure a separate transit gateway route table for on premise
- B. Associate the VPN attachment with this transit gateway route table
- C. Propagate all application VPC attachments to this transit gateway route table.
- D. Configure a separate transit gateway route table for each application VPC
- E. Associate each application VPC attachment with its respective transit gateway route table
- F. Propagate the shared services VPC attachment and the VPN attachment to this transit gateway route table.
- G. Configure a separate transit gateway route table for all application VPC
- H. Associate all application VPCs with this transit gateway route table
- I. Propagate the shared services VPC attachment and the VPN attachment to this transit gateway route table.
- J. Configure a separate transit gateway route table for the shared services VPC
- K. Associate the shared services VPC attachment with this transit gateway route table
- L. Propagate all application VPC attachments to this transit gateway route table.
- M. Configure a separate transit gateway route table for on premises and the shared services VPC
- N. Associate the VPN attachment and the shared services VPC attachment with this transit gateway route table
- O. Propagate all application VPC attachments to this transit gateway route table.

**Answer: BD**

**NEW QUESTION 38**

A company has deployed a critical application on a fleet of Amazon EC2 instances behind an Application Load Balancer. The application must always be reachable on port 443 from the public internet. The application recently had an outage that resulted from an incorrect change to the EC2 security group.

A network engineer needs to automate a way to verify the network connectivity between the public internet and the EC2 instances whenever a change is made to the security group. The solution also must notify the network engineer when the change affects the connection.

Which solution will meet these requirements?

- A. Enable VPC Flow Logs on the elastic network interface of each EC2 instance to capture REJECT traffic on port 443. Publish the flow log records to a log group in Amazon CloudWatch Log
- B. Create a CloudWatch Logs metric filter for the log group for rejected traffic
- C. Create an alarm to notify the network engineer.
- D. Enable VPC Flow Logs on the elastic network interface of each EC2 instance to capture all traffic on port 443. Publish the flow log records to a log group in Amazon CloudWatch Log
- E. Create a CloudWatch Logs metric filter for the log group for all traffic
- F. Create an alarm to notify the network engineer
- G. Create a VPC Reachability Analyzer path on port 443. Specify the security group as the source
- H. Specify the EC2 instances as the destination



- I. Create an Amazon Simple Notification Service (Amazon SNS) topic to notify the network engineer when a change to the security group affects the connectio
- J. Create an AWS Lambda function to start Reachability Analyzer and to publish a message to the SNS topic in case the analyses fail Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke the Lambda function when a change to the security group occurs.
- K. Create a VPC Reachability Analyzer path on port 443. Specify the internet gateway of the VPC as the source
- L. Specify the EC2 instances as the destination
- M. Create an Amazon Simple Notification Service (Amazon SNS) topic to notify the network engineer when a change to the security group affects the connectio
- N. Create an AWS Lambda function to start Reachability Analyzer and to publish a message to the SNS topic in case the analyses fail
- O. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke the Lambda function when a change to the security group occurs.

**Answer:** C

#### NEW QUESTION 41

An organization launched an IPv6-only web portal to support IPv6-native mobile clients. Front-end instances launch in an Amazon VPC associated with an appropriate IPv6 CIDR. The VPC IPv4 CIDR is fully utilized. A single subnet exists in each of two Availability Zones with appropriately configured IPv6 CIDR associations. Auto Scaling is properly configured, and no Elastic Load Balancing is used.

Customers say the service is unavailable during peak load times. The network engineer attempts to launch an instance manually and receives the following message: "There are not enough free addresses in subnet 'subnet-12345677' to satisfy the requested number of instances."

What action will resolve the availability problem?

- A. Create a new subnet using a VPC secondary IPv6 CIDR, and associate an IPv6 CID
- B. Include the new subnet in the Auto Scaling group.
- C. Create a new subnet using a VPC secondary IPv4 CIDR, and associate an IPv6 CID
- D. Include the new subnet in the Auto Scaling group.
- E. Resize the IPv6 CIDR on each of the existing subnet
- F. Modify the Auto Scaling group maximum number of instances.
- G. Add a secondary IPv4 CIDR to the Amazon VP
- H. Assign secondary IPv4 address space to each of the existing subnets.

**Answer:** B

#### NEW QUESTION 45

A network engineer is designing a hybrid architecture that uses a 1 Gbps AWS Direct Connect connection between the company's data center and two AWS Regions: us-east-1 and eu-west-1. The VPCs in us-east-1 are connected by a transit gateway and need to access several on-premises databases. According to company policy, only one VPC in eu-west-1 can be connected to one on-premises server. The on-premises network segments the traffic between the databases and the server.

How should the network engineer set up the Direct Connect connection to meet these requirements?

- A. Create one hosted connectio
- B. Use a transit VIF to connect to the transit gateway in us-east-1. Use a private VIF to connect to the VPC in eu-west-1. Use one Direc
- C. Connect gateway for both VIFs to route from the Direct Connect locations to the corresponding AWS Region along the path that has the lowest latency.
- D. Create one hosted connectio
- E. Use a transit VIF to connect to the transit gateway in us-east-1. Use a private VIF to connect to the VPC in eu-west-1. Use two Direct Connect gateways, one for each VIF, to route from the Direct Connect locations to the corresponding AWS Region along the path that has the lowest latency.
- F. Create one dedicated connectio
- G. Use a transit VIF to connect to the transit gateway in us-east-1. Use a private VIF to connect to the VPC in eu-west-1. Use one Direct Connect gateway for both VIFs to route from the Direct Connect locations to the corresponding AWS Region along the path that has the lowest latency.
- H. Create one dedicated connectio
- I. Use a transit VIF to connect to the transit gateway in us-east-1. Use a private VIF to connect to the VPC in eu-west-1. Use two Direct Connect gateways, one for each VIF, to route from the Direct Connect locations to the corresponding AWS Region along the path that has the lowest latency.

**Answer:** B

#### Explanation:

This solution meets the requirements of the company by using a single Direct Connect connection with two VIFs, one connected to the transit gateway in us-east-1 and the other connected to the VPC in eu-west-1. Two Direct Connect gateways are used, one for each VIF, to route traffic from the Direct Connect location to the corresponding AWS Region along the path that has the lowest latency. This setup ensures that traffic between the VPCs in us-east-1 and on-premises databases is routed through the transit gateway, while traffic between the VPC in eu-west-1 and the on-premises server is routed directly through the private VIF.

#### NEW QUESTION 46

A Network Engineer is provisioning a subnet for a load balancer that will sit in front of a fleet of application servers in a private subnet. There is limited IP space left in the VPC CIDR. The application has few users now but is expected to grow quickly to millions of users.

What design will use the LEAST amount of IP space, while allowing for this growth?

- A. Use two /29 subnets for an Application Load Balancer in different Availability Zones.
- B. Use one /29 subnet for the Network Load Balance
- C. Add another VPC CIDR to the VPC to allow for future growth.
- D. Use two /28 subnets for a Network Load Balancer in different Availability Zones.
- E. Use one /28 subnet for an Application Load Balance
- F. Add another VPC CIDR to the VPC to allow for future growth.

**Answer:** C

#### NEW QUESTION 51

A bank built a new version of its banking application in AWS using containers that connect to an on-premises database over VPN connection. This application version requires users to also update their client application. The bank plans to deprecate the earlier client version. However, the company wants to keep supporting earlier clients through their on-premises version of the application to serve a small portion of the customers who haven't yet upgraded.

What design will allow the company to serve both newer and earlier clients in the MOST efficient way?

- A. Use an Amazon Route 53 multivalue answer routing policy to route older client traffic to the on-premises application version and the rest of the traffic to the new



AWS based version.

- B. Use a Classic Load Balancer for the new applicatio
- C. Route all traffic to the new application by using an Elastic Load Balancing (ELB) load balancer DN
- D. Define a user-agent-based rule on the backend servers to redirect earlier clients to the on-premises application.
- E. Use an Application Load Balancer for the new applicatio
- F. Register both the new and earlier applications as separate target groups and use path-based routing to route traffic based on the application version.
- G. Use an Application Load Balancer for the new applicatio
- H. Register both the new and earlier application backends as separate target group
- I. Use header-based routing to route traffic based on the application version.

**Answer: D**

#### NEW QUESTION 52

A company is deploying a new application on AWS. The application uses dynamic multicasting. The company has five VPCs that are all attached to a transit gateway. Amazon EC2 instances in each VPC need to be able to register dynamically to receive a multicast transmission. How should a network engineer configure the AWS resources to meet these requirements?

- A. Create a static source multicast domain within the transit gatewa
- B. Associate the VPCs and applicable subnets with the multicast domai
- C. Register the multicast senders' network interface with the multicast domai
- D. Adjust the network ACLs to allow UDP traffic from the source to all receivers and to allow UDP traffic that is sent to the multicast group address.
- E. Create a static source multicast domain within the transit gatewa
- F. Associate the VPCs and applicable subnets with the multicast domai
- G. Register the multicast senders' network interface with the multicast domai
- H. Adjust the network ACLs to allow TCP traffic from the source to all receivers and to allow TCP traffic that is sent to the multicast group address.
- I. Create an Internet Group Management Protocol (IGMP) multicast domain within the transit gateway. Associate the VPCs and applicable subnets with the multicast domai
- J. Register the multicast senders' network interface with the multicast domai
- K. Adjust the network ACLs to allow UDP traffic from the source to all receivers and to allow UDP traffic that is sent to the multicast group address.
- L. Create an Internet Group Management Protocol (IGMP) multicast domain within the transit gateway. Associate the VPCs and applicable subnets with the multicast domai
- M. Register the multicast senders' network interface with the multicast domai
- N. Adjust the network ACLs to allow TCP traffic from the source to all receivers and to allow TCP traffic that is sent to the multicast group address.

**Answer: C**

#### NEW QUESTION 57

A company's AWS architecture consists of several VPCs. The VPCs include a shared services VPC and several application VPCs. The company has established network connectivity from all VPCs to the on-premises DNS servers.

Applications that are deployed in the application VPCs must be able to resolve DNS for internally hosted domains on premises. The applications also must be able to resolve local VPC domain names and domains that are hosted in Amazon Route 53 private hosted zones.

What should a network engineer do to meet these requirements?

- A. Create a new Route 53 Resolver inbound endpoint in the shared services VP
- B. Create forwarding rules for the on-premises hosted domain
- C. Associate the rules with the new Resolver endpoint and each application VP
- D. Update each application VPC's DHCP configuration to point DNS resolution to the new Resolver endpoint.
- E. Create a new Route 53 Resolver outbound endpoint in the shared services VP
- F. Create forwarding rules for the on-premises hosted domain
- G. Associate the rules with the new Resolver endpoint and each application VPC.
- H. Create a new Route 53 Resolver outbound endpoint in the shared services VPC. Create forwarding rules for the on-premises hosted domain
- I. Associate the rules with the new Resolver endpoint and each application VP. Update each application VPC's DHCP configuration to point DNS resolution to the new Resolver endpoint.
- J. Create a new Route 53 Resolver inbound endpoint in the shared services VP
- K. Create forwarding rules for the on-premises hosted domain
- L. Associate the rules with the new Resolver endpoint and each application VPC.

**Answer: B**

#### Explanation:

Creating a new Route 53 Resolver outbound endpoint in the shared services VPC would enable forwarding of DNS queries from the VPC to on-premises<sup>1</sup>.

Creating forwarding rules for the on-premises hosted domains would enable specifying which domain names are forwarded to the on-premises DNS servers<sup>2</sup>.

Associating the rules with the new Resolver endpoint and each application VPC would enable applying the rules to the VPCs<sup>2</sup>. This solution would not affect the default DNS resolution behavior of Route 53 Resolver for local VPC domain names and domains that are hosted in Route 53 private hosted zones<sup>3</sup>.

#### NEW QUESTION 61

A security team is performing an audit of a company's AWS deployment. The security team is concerned that two applications might be accessing resources that should be blocked by network ACLs and security groups. The applications are deployed across two Amazon Elastic Kubernetes Service (Amazon EKS) clusters that use the Amazon VPC Container Network Interface (CNI) plugin for Kubernetes. The clusters are in separate subnets within the same VPC and have a Cluster Autoscaler configured.

The security team needs to determine which POD IP addresses are communicating with which services throughout the VPC. The security team wants to limit the number of flow logs and wants to examine the traffic from only the two applications.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create VPC flow logs in the default forma
- B. Create a filter to gather flow logs only from the EKS nodes. Include the srcaddr field and the dstaddr field in the flow logs.
- C. Create VPC flow logs in a custom forma
- D. Set the EKS nodes as the resource. Include the pkt-srcaddr field and the pkt-dstaddr field in the flow logs.
- E. Create VPC flow logs in a custom forma

- F. Set the application subnets as resource
- G. Include the pkt-srcaddr field and the pkt-dstaddr field in the flow logs.
- H. Create VPC flow logs in a custom format
- I. Create a filter to gather flow logs only from the EKS nodes. Include the pkt-srcaddr field and the pkt-dstaddr field in the flow logs.

**Answer:** D

#### NEW QUESTION 63

An Australian ecommerce company hosts all of its services in the AWS Cloud and wants to expand its customer base to the United States (US). The company is targeting the western US for the expansion.

The company's existing AWS architecture consists of four AWS accounts with multiple VPCs deployed in the ap-southeast-2 Region. All VPCs are attached to a transit gateway in ap-southeast-2. There are dedicated VPCs for each application service. The company also has VPCs for centralized security features such as proxies, firewalls, and logging.

The company plans to duplicate the infrastructure from ap-southeast-2 to the us-west-1 Region. A network engineer must establish connectivity between the various applications in the two Regions. The solution must maximize bandwidth, minimize latency and minimize operational overhead.

Which solution will meet these requirements?

- A. Create VPN attachments between the two transit gateway
- B. Configure the VPN attachments to use BGP routing between the two transit gateways.
- C. Peer the transit gateways in each Region
- D. Configure routing between the two transit gateways for each Region's IP addresses.
- E. Create a VPN server in a VPC in each Region
- F. Update the routing to point to the VPN servers for the IP addresses in alternate Regions.
- G. Attach the VPCs in us-west-1 to the transit gateway in ap-southeast-2.

**Answer:** B

#### Explanation:

Peering the transit gateways in each region would establish a private network connection between the two regions, allowing the company to route traffic between the VPCs in different regions without going over the public internet. This would help minimize latency and maximize bandwidth while reducing the operational overhead of managing multiple VPN connections.

#### NEW QUESTION 65

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