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Amazon AWS ANS-C01

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## QUESTION NO: 1

A company has expanded its network to the AWS Cloud by using a hybrid architecture with multiple AWS accounts. The company has set up a shared AWS account for the connection to its on-premises data centers and the company offices. The workloads consist of private web-based services for internal use. These services run in different AWS accounts. Office-based employees consume these services by using a DNS name in an on-premises DNS zone that is named `example.internal`.

The process to register a new service that runs on AWS requires a manual and complicated change request to the internal DNS. The process involves many teams.

The company wants to update the DNS registration process by giving the service creators access that will allow them to register their DNS records. A network engineer must design a solution that will achieve this goal. The solution must maximize cost-effectiveness and must require the least possible number of configuration changes.

Which combination of steps should the network engineer take to meet these requirements? (Choose three.)

- A.** Create a record for each service in its local private hosted zone (`serviceA.account1.aws.example.internal`). Provide this DNS record to the employees who need access.
- B.** Create an Amazon Route 53 Resolver inbound endpoint in the shared account VPC. Create a conditional forwarder for a domain named `aws.example.internal` on the on-premises DNS servers. Set the forwarding IP addresses to the inbound endpoint's IP addresses that were created.
- C.** Create an Amazon Route 53 Resolver rule to forward any queries made to `onprem.example.internal` to the on-premises DNS servers.
- D.** Create an Amazon Route 53 private hosted zone named `aws.example.internal` in the shared AWS account to resolve queries for this domain.
- E.** Launch two Amazon EC2 instances in the shared AWS account. Install BIND on each instance. Create a DNS conditional forwarder on each BIND server to forward queries for each subdomain under `aws.example.internal` to the appropriate private hosted zone in each AWS account. Create a conditional forwarder for a domain named `aws.example.internal` on the on-premises DNS servers. Set the forwarding IP addresses to the IP addresses of the BIND servers.
- F.** Create a private hosted zone in the shared AWS account for each account that runs the service. Configure the private hosted zone to contain `aws.example.internal` in the domain (`account1.aws.example.internal`). Associate the private hosted zone with the VPC that runs the service and the shared account VPC.

**ANSWER: A B D**

### Explanation:

To meet the requirements of updating the DNS registration process while maximizing cost-effectiveness and minimizing configuration changes, the network engineer should take the following steps:

These steps will allow service creators to register their DNS records while keeping costs low and minimizing configuration changes.

## QUESTION NO: 2

A global company runs business applications in the us-east-1 Region inside a VPC. One of the company's regional offices in London uses a virtual private gateway for an AWS Site-to-Site VPN connection to the VPC. The company has configured a transit gateway and has set up peering between the VPC and other VPCs that various departments in the company use.

Employees at the London office are experiencing latency issues when they connect to the business applications.

What should a network engineer do to reduce this latency?

- A.** Create a new Site-to-Site VPN connection. Set the transit gateway as the target gateway. Enable acceleration on the new Site-to-Site VPN connection. Update the VPN device in the London office with the new connection details.
- B.** Modify the existing Site-to-Site VPN connection by setting the transit gateway as the target gateway. Enable acceleration on the existing Site-to-Site VPN connection.
- C.** Create a new transit gateway in the eu-west-2 (London) Region. Peer the new transit gateway with the existing transit gateway. Modify the existing Site-to-Site VPN connection by setting the new transit gateway as the target gateway.
- D.** Create a new AWS Global Accelerator standard accelerator that has an endpoint of the Site-to-Site VPN connection. Update the VPN device in the London office with the new connection details.

**ANSWER: A**

#### Explanation:

Enabling acceleration for a Site-to-Site VPN connection uses AWS Global Accelerator to route traffic from the on-premises network to an AWS edge location that is closest to the customer gateway device<sup>1</sup>. AWS Global Accelerator optimizes the network path, using the congestion-free AWS global network to route traffic to the endpoint that provides the best application performance<sup>2</sup>. Setting the transit gateway as the target gateway enables connectivity between the on-premises network and multiple VPCs that are attached to the transit gateway<sup>3</sup>.

#### QUESTION NO: 3

A company has its production VPC (VPC-A) in the eu-west-1 Region in Account 1. VPC-A is attached to a transit gateway (TGW-A) that is connected to an on-premises data center in Dublin, Ireland, by an AWS Direct Connect transit VIF that is configured for an AWS Direct Connect gateway. The company also has a staging VPC (VPC-B) that is attached to another transit gateway (TGW-B) in the eu-west-2 Region in Account 2.

A network engineer must implement connectivity between VPC-B and the on-premises data center in Dublin.

Which solutions will meet these requirements? (Choose two.)

- A.** Configure inter-Region VPC peering between VPC-A and VPC-B. Add the required VPC peering routes. Add the VPC-B CIDR block in the allowed prefixes on the Direct Connect gateway association.
- B.** Associate TGW-B with the Direct Connect gateway. Advertise the VPC-B CIDR block under the allowed prefixes. Associate TGW-B with the Direct Connect gateway. Advertise the VPC-B CIDR block under the allowed prefixes. This will allow traffic from VPC-B to be sent over the Direct Connect connection to the on-premises data center via TGW-C. Configure another transit VIF on the Direct Connect connection and associate TGW-Advertise the VPC-B CIDR block under the allowed prefixes. This will enable the use of the Direct Connect connection for VPC-B's traffic by connecting TGW-B to the Direct Connect gateway.
- C.** Configure another transit VIF on the Direct Connect connection and associate TGW-B. Advertise the VPC-B CIDR block under the allowed prefixes.

D. Configure inter-Region transit gateway peering between TGW-A and TGW-B. Add the peering routes in the transit gateway route tables. Add both the VPC-A and the VPC-B CIDR block under the allowed prefix list in the Direct Connect gateway association.

E. Configure an AWS Site-to-Site VPN connection over the transit VIF to TGW-B as a VPN attachment.

**ANSWER: B C**

**Explanation:**

B. Associate TGW-B with the Direct Connect gateway. Advertise the VPC-B CIDR block under the allowed prefixes. This will allow traffic from VPC-B to be sent over the Direct Connect connection to the on-premises data center via TGW-B. C. Configure another transit VIF on the Direct Connect connection and associate TGW-B. Advertise the VPC-B CIDR block under the allowed prefixes. This will enable the use of the Direct Connect connection for VPC-B's traffic by connecting TGW-B to the Direct Connect gateway.

**QUESTION NO: 4**

A company has deployed a new web application on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances are in an Amazon EC2 Auto Scaling group. Enterprise customers from around the world will use the application. Employees of these enterprise customers will connect to the application over HTTPS from office locations.

The company must configure firewalls to allow outbound traffic to only approved IP addresses. The employees of the enterprise customers must be able to access the application with the least amount of latency.

Which change should a network engineer make in the infrastructure to meet these requirements?

- A. Create a new Network Load Balancer (NLB). Add the ALB as a target of the NLB.
- B. Create a new Amazon CloudFront distribution. Set the ALB as the distribution's origin.
- C. Create a new accelerator in AWS Global Accelerator. Add the ALB as an accelerator endpoint.
- D. Create a new Amazon Route 53 hosted zone. Create a new record to route traffic to the ALB.

**ANSWER: B**

**Explanation:**

Amazon CloudFront is a content delivery network (CDN) that can speed up the delivery of static and dynamic web content, such as images, videos, and APIs<sup>2</sup>. CloudFront can also provide end-to-end encryption for HTTPS traffic by using SSL certificates from AWS Certificate Manager (ACM) or other sources<sup>2</sup>. CloudFront can also support session affinity (sticky sessions) with a load balancer-generated cookie or an application-based cookie policy<sup>2</sup>.

**QUESTION NO: 5**

A company is planning to create a service that requires encryption in transit. The traffic must not be decrypted between the client and the backend of the service. The company will implement the service by using the gRPC protocol over TCP port 443. The service will scale up to thousands of simultaneous connections. The backend of the service will be hosted on an Amazon Elastic Kubernetes Service (Amazon EKS) cluster with the Kubernetes Cluster Autoscaler and the Horizontal Pod Autoscaler configured. The company needs to use mutual TLS for two-way authentication between the client and the backend.

Which solution will meet these requirements?

- A.** Install the AWS Load Balancer Controller for Kubernetes. Using that controller, configure a Network Load Balancer with a TCP listener on port 443 to forward traffic to the IP addresses of the backend service Pods.
- B.** Install the AWS Load Balancer Controller for Kubernetes. Using that controller, configure an Application Load Balancer with an HTTPS listener on port 443 to forward traffic to the IP addresses of the backend service Pods.
- C.** Create a target group. Add the EKS managed node group's Auto Scaling group as a target. Create an Application Load Balancer with an HTTPS listener on port 443 to forward traffic to the target group.
- D.** Create a target group. Add the EKS managed node group's Auto Scaling group as a target. Create a Network Load Balancer with a TLS listener on port 443 to forward traffic to the target group.

**ANSWER: B**

**Explanation:**

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-target-groups.html#target-group-protocol-version> <https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/deploy-a-grpc-based-application-on-an-amazon-eks-cluster-and-access-it-with-an-application-load-balancer.html>

## QUESTION NO: 6

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 Balancer. Create a target group. Set the protocol to TCP and the port to 443 for the target group. Turn on session affinity (sticky sessions). Register the EC2 instances as targets. Create a listener. Set the protocol to TCP and the port to 443 for the listener. Deploy SSL certificates to the EC2 instances.
- B.** Create an Application Load Balancer. Create a target group. Set the protocol to HTTP and the port to 80 for the target group. Turn on session affinity (sticky sessions) with an application-based cookie policy. Register the EC2 instances as targets. Create an HTTPS listener. Set the default action to forward to the target group. Use AWS Certificate Manager (ACM) to create a certificate for the listener.
- C.** Create a Network Load Balancer. Create a target group. Set the protocol to TLS and the port to 443 for the target group. Turn on session affinity (sticky sessions). Register the EC2 instances as targets. Create a listener. Set the protocol to TLS and the port to 443 for the listener. Use AWS Certificate Manager (ACM) to create a certificate for the application.
- D.** Create an Application Load Balancer. Create a target group. Set the protocol to HTTPS and the port to 443 for the target group. Turn on session affinity (sticky sessions) with an application-based cookie policy. Register the EC2 instances as targets. Create an HTTP listener. Set the port to 443 for the listener. Set the default action to forward to the target group.

**ANSWER: A**

## QUESTION NO: 7

A media company is implementing a news website for a global audience. The website uses Amazon CloudFront as its content delivery network. The backend runs on Amazon EC2 Windows instances behind an Application Load Balancer (ALB). The instances are part of an Auto Scaling group. The company's customers access the website by using service.example.com as the CloudFront custom domain name. The CloudFront origin points to an ALB that uses service-alb.example.com as the domain name.

The company's security policy requires the traffic to be encrypted in transit at all times between the users and the backend.

Which combination of changes must the company make to meet this security requirement? (Choose three.)

- A.** Create a self-signed certificate for service.example.com. Import the certificate into AWS Certificate Manager (ACM). Configure CloudFront to use this imported SSL/TLS certificate. Change the default behavior to redirect HTTP to HTTPS.
- B.** Create a certificate for service.example.com by using AWS Certificate Manager (ACM). Configure CloudFront to use this custom SSL/TLS certificate. Change the default behavior to redirect HTTP to HTTPS.
- C.** Create a certificate with any domain name by using AWS Certificate Manager (ACM) for the EC2 instances. Configure the backend to use this certificate for its HTTPS listener. Specify the instance target type during the creation of a new target group that uses the HTTPS protocol for its targets. Attach the existing Auto Scaling group to this new target group.
- D.** Create a public certificate from a third-party certificate provider with any domain name for the EC2 instances. Configure the backend to use this certificate for its HTTPS listener. Specify the instance target type during the creation of a new target group that uses the HTTPS protocol for its targets. Attach the existing Auto Scaling group to this new target group.
- E.** Create a certificate for service-alb.example.com by using AWS Certificate Manager (ACM). On the ALB add a new HTTPS listener that uses the new target group and the service-alb.example.com ACM certificate. Modify the CloudFront origin to use the HTTPS protocol only. Delete the HTTP listener on the ALB.
- F.** Create a self-signed certificate for service-alb.example.com. Import the certificate into AWS Certificate Manager (ACM). On the ALB add a new HTTPS listener that uses the new target group and the imported service-alb.example.com ACM certificate. Modify the CloudFront origin to use the HTTPS protocol only. Delete the HTTP listener on the ALB.

**ANSWER: B D E**

## QUESTION NO: 8

A company's network engineer is designing an active-passive connection to AWS from two on-premises data centers. The company has set up AWS Direct Connect connections between the on-premises data centers and AWS. From each location, the company is using a transit VIF that connects to a Direct Connect gateway that is associated with a transit gateway.

The network engineer must ensure that traffic from AWS to the data centers is routed first to the primary data center. The traffic should be routed to the failover data center only in the case of an outage.

Which solution will meet these requirements?

- A.** Set the BGP community tag for all prefixes from the primary data center to 7224:7100. Set the BGP community tag for all prefixes from the failover data center to 7224:7300
- B.** Set the BGP community tag for all prefixes from the primary data center to 7224:7300. Set the BGP community tag for all prefixes from the failover data center to 7224:7100

**C.** Set the BGP community tag for all prefixes from the primary data center to 7224:9300. Set the BGP community tag for all prefixes from the failover data center to 7224:9100

**D.** Set the BGP community tag for all prefixes from the primary data center to 7224:9100. Set the BGP community tag for all prefixes from the failover data center to 7224:9300

**ANSWER: B**

## QUESTION NO: 9

A company is using custom DNS servers that run BIND for name resolution in its VPCs. The VPCs are deployed across multiple AWS accounts that are part of the same organization in AWS Organizations. All the VPCs are connected to a transit gateway. The BIND servers are running in a central VPC and are configured to forward all queries for an on-premises DNS domain to DNS servers that are hosted in an on-premises data center. To ensure that all the VPCs use the custom DNS servers, a network engineer has configured a VPC DHCP options set in all the VPCs that specifies the custom DNS servers to be used as domain name servers.

Multiple development teams in the company want to use Amazon Elastic File System (Amazon EFS). A development team has created a new EFS file system but cannot mount the file system to one of its Amazon EC2 instances. The network engineer discovers that the EC2 instance cannot resolve the IP address for the EFS mount point `fs-33444567d.efs.us-east-1.amazonaws.com`. The network engineer needs to implement a solution so that development teams throughout the organization can mount EFS file systems.

Which combination of steps will meet these requirements? (Choose two.)

**A.** Configure the BIND DNS servers in the central VPC to forward queries for `efs.us-east-1.amazonaws.com` to the Amazon provided DNS server (169.254.169.253).

**B.** Create an Amazon Route 53 Resolver outbound endpoint in the central VPC. Update all the VPC DHCP options sets to use AmazonProvidedDNS for name resolution.

**C.** Create an Amazon Route 53 Resolver inbound endpoint in the central VPC. Update all the VPC DHCP options sets to use the Route 53 Resolver inbound endpoint in the central VPC for name resolution.

**D.** Create an Amazon Route 53 Resolver rule to forward queries for the on-premises domain to the on-premises DNS servers. Share the rule with the organization by using AWS Resource Access Manager (AWS RAM). Associate the rule with all the VPCs.

**E.** Create an Amazon Route 53 private hosted zone for the `efs.us-east-1.amazonaws.com` domain. Associate the private hosted zone with the VPC where the EC2 instance is deployed. Create an A record for `fs-33444567d.efs.us-east-1.amazonaws.com` in the private hosted zone. Configure the A record to return the mount target of the EFS mount point.

**ANSWER: B D**

### Explanation:

Option B suggests using Amazon Route 53 Resolver outbound endpoint, which would replace the existing BIND DNS servers with the AmazonProvidedDNS for name resolution. However, the scenario specifically mentions that the company is using custom DNS servers that run BIND for name resolution in its VPCs, so this solution would not work. Option D suggests creating a Route 53 Resolver rule to forward queries for the on-premises domain to the on-premises DNS servers, which would not address the issue of resolving the EFS mount point. The problem is not with resolving queries for the on-premises domain, but rather with resolving the IP address for the EFS mount point.

## QUESTION NO: 10

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 VPC. Connect the inspection VPC to the transit gateway by using a VPC attachment. Create a target group, and register the appliances with the target group. Create a Network Load Balancer (NLB), and set it up to forward to the newly created target group. Configure a default route in the inspection VPCs transit gateway subnet toward the NLB.
- B.** Deploy two clusters that consist of multiple appliances across multiple Availability Zones in a designated inspection VPC. Connect the inspection VPC to the transit gateway by using a VPC attachment. Create a target group, and register the appliances with the target group. Create a Gateway Load Balancer, and set it up to forward to the newly created target group. Configure a default route in the inspection VPC's transit gateway subnet toward the Gateway Load Balancer endpoint.
- C.** Configure two route tables on the transit gateway. Associate one route table with all the attachments of the application VPCs. Associate the other route table with the inspection VPC's attachment. Propagate all VPC attachments into the inspection route table. Define a static default route in the application route table. Enable appliance mode on the attachment that connects the inspection VPC.
- D.** Configure two route tables on the transit gateway. Associate one route table with all the attachments of the application VPCs. Associate the other route table with the inspection VPCs attachment. Propagate all VPC attachments into the application route table. Define a static default route in the inspection route table. Enable appliance mode on the attachment that connects the inspection VPC.
- E.** Configure one route table on the transit gateway. Associate the route table with all the VPCs. Propagate all VPC attachments into the route table. Define a static default route in the route table.

**ANSWER: B C**