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ANS-C00

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QUESTION NO: 1

Your organization uses a VPN to connect to your VPC but must upgrade to a 1-G AWS Direct Connect connection for stability and performance. Your telecommunications provider has provisioned the circuit from your data center to an AWS Direct Connect facility and needs information on how to cross-connect (e.g., which rack/port to connect).

What is the AWS-recommended procedure for providing this information?

- A.** Create a support ticket. Provide your AWS account number and telecommunications company's name and where you need the Direct Connect connection to terminate.
- B.** Create a new connection through your AWS Management Console and wait for an email from AWS with information.
- C.** Ask your telecommunications provider to contact AWS through an AWS Partner Channel. Provide your AWS account number.
- D.** Contact an AWS Account Manager and provide your AWS account number, telecommunications company's name, and where you need the Direct Connect connection to terminate.

ANSWER: A**QUESTION NO: 2**

An organization wants to process sensitive information using the Amazon EMR service. The information is stored in on-premises databases. The output of processing will be encrypted using AWS KMS before it is uploaded to a customer-owned Amazon S3 bucket. The current configuration includes a VPS with public and private subnets, with VPN connectivity to the on-premises network. The security organization does not allow Amazon EC2 instances to run in the public subnet.

What is the MOST simple and secure architecture that will achieve the organization's goal?

- A.** Use the existing VPC and configure Amazon EMR in a private subnet with an Amazon S3 endpoint.
- B.** Use the existing VPS and a NAT gateway, and configure Amazon EMR in a private subnet with an Amazon S3 endpoint.
- C.** Create a new VPS without an IGW and configure the VPN and Amazon EMR in a private subnet with an Amazon S3 endpoint.
- D.** Create a new VPS without an IGW and configure the VPN and Amazon EMR in a private subnet with an Amazon S3 endpoint and a NAT gateway.

ANSWER: B**QUESTION NO: 3**

You have a DX connection and a VPN connection as backup for your 10.0.0.0/16 network. You just received a letter indicating that the colocation provider hosting the DX connection will be undergoing maintenance soon. It is critical that you do not experience any downtime or latency during this period.

What is the best course of action?

- A. Configure the VPN as a static VPN instead of dynamic.
- B. Configure AS_PATH Prepending on the DX connection to make it the less preferred path.
- C. Advertise 10.0.0.0/9 and 10.128.0.0/9 over your VPN connection.
- D. None of the above.

ANSWER: D

Explanation:

A more specific route is the only way to force AWS to prefer a VPN connection over a DX connection. A /9 is not more specific than a /16.

QUESTION NO: 4

You need to ensure the files served by your CloudFront distribution are only accessible to authorized users. You hope to serve thousands of users. What two steps should you take? (Choose two.)

- A. Configure signed cookies.
- B. Configure a WAF.
- C. Configure a bucket policy restricting the bucket to only CloudFront OAI.
- D. Configure an SSL on the distribution.

ANSWER: A C

Explanation:

A WAF can block users from accessing the site and CloudFront, but that's not the best option since you have so many users. An SSL will encrypt, but not prevent a user from viewing the content.

QUESTION NO: 5

When configuring Active/Passive HA on VPN tunnels, choose the two best ways to configure this. (Choose two.)

- A. Keep both tunnels up.
- B. Configure AS_PATH prepending on one of the paths.
- C. Turn off one of the paths until you need it.

D. Configure MED on one of the tunnels.

ANSWER: A B

Explanation:

AWS prefers AS_PATH prepending and for a tunnel to provide true failover, it must always be on.

QUESTION NO: 6

Your company has decided to use AWS WorkSpaces for its hosted desktop solution. Your company has an existing AD of about 57,000 users, and you want to minimize authentication traffic from AWS to your datacenter. Your company has a lot of personnel changes, and it is crucial that these changes are reflected reliably. What two steps should you take? (Choose two.)

- A. Deploy Hosted AD in AWS.
- B. Deploy an AD Connector in AWS.
- C. Create a DX connection between the datacenter and AWS.
- D. Create a VPN between the datacenter AWS.

ANSWER: A C

Explanation:

A VPN is not reliable enough, and an AD connector will cause too much authentication traffic.

QUESTION NO: 7

A bank built a new version of its banking application in AWS using containers that connect to an on-premises database over a 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 multivalued 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 application. Route all traffic to the new application by using an Elastic Load Balancing (ELB) load balancer DNS. Define a user-agent-based rule on the backend servers to redirect earlier clients to the on-premises application.
- C. Use an Application Load Balancer for the new application. Register both the new and earlier applications as separate target groups and use path-based routing to route traffic based on the application version.

D. Use an Application Load Balancer for the new application. Register both the new and earlier application backends as separate target groups. Use host header-based routing to route traffic based on the application version.

ANSWER: B

QUESTION NO: 8

Which two methods can be used to ensure items are distributed only to the correct parties? (Choose two.)

- A. Signed URLs
- B. Signed cookies
- C. Signed biscuits
- D. Signed SSLs

ANSWER: A B

Explanation:

Signed cookies and signed URLs are used to ensure only intended parties can access CloudFront resources.

QUESTION NO: 9

Your Amazon Kinesis application receives data streams from thousands of devices. The data is then stored in an on-premises Hadoop cluster. You are concerned about historical data that shows periods of sustained traffic between 1 Gbps and 2 Gbps during peaks. You must ensure that you have secure, fault-tolerant connectivity between Amazon Kinesis and your data center.

What should you implement to address these needs?

- A. Deploy a single 1-Gbps Direct Connect connection with a VPN backup.
- B. Deploy three 1-Gbps Direct Connect connections.
- C. Deploy two 1-Gbps Direct Connect connections.
- D. Set up an IPsec VPN connection over Direct Connect with two tunnels.

ANSWER: B

Explanation:

Three connections are required to provide fault tolerance. All of the other options would be unable to handle the peak loads over 1 Gbps without exceeding the available bandwidth.

QUESTION NO: 10

A space exploration company owns a series of telescopes that capture a large number of images and data of the night sky. The images and data are processed on an application hosted on AWS Fargate in a target group assigned to an Application Load Balancer (ALB). The application is made available through the address `https://space.example.com`.

Scientists require another custom-built application hosted on several Amazon EC2 instances within an Auto Scaling group. This application will be made available from the address `https://space.example.com/meteor`. The company needs a solution that can automatically scale from a small number of requests overnight to a large number of requests for a future meteor shower.

What is the MOST operationally efficient solution that meets these requirements?

- A.** Update the existing target group with the new EC2 instances. Update the application's ALB by adding a listener rule that redirects `/meteor` to the newly added EC2 instances.
- B.** Create a new target group. Configure the Auto Scaling group of the EC2 instances to use the target group. Update the ALB by adding a listener rule that redirects `/meteor` to the new target group.
- C.** Create a Network Load Balancer (NLB). Configure the NLB to listen on two ports. Configure a target group for one port to deliver all IP traffic to the Auto Scaling group to process the custom images. Configure a target group for the second port to deliver all IP traffic to Fargate. Use path-based routing in the ALB to route traffic for the URL prefix `/meteor` to the first target group. Route all other paths to the second target group.
- D.** Place the ALB behind an Amazon CloudFront distribution. Create a `Lambda@Edge` function that parses the request URI and adds the path-pattern header with the IP addresses of the EC2 instances to any request for `/meteor`. Add a listener rule to the ALB that looks for the HTTP header and uses the IP addresses of the EC2 instances to forward the traffic.

ANSWER: C**QUESTION NO: 11**

You are configuring multiple Direct Connect links for your organization and need them to be in an HA Active/Passive configuration with extreme sensitivity to outages in order to encourage very quick failover times. You also need to be able to control which link is active.

What two configuration changes should you implement? (Choose two.)

- A.** MPLS
- B.** BFD
- C.** AS_PATH Prepending
- D.** BGP

ANSWER: B C**Explanation:**

Bidirectional-Forwarding Detection will allow for faster failover times. AS_PATH Prepending will allow you to choose the default path. BGP is already implemented and MPLS does not matter.

QUESTION NO: 12

A company needs to set up a VPN between AWS VPC and its on-premises network. A team creates a VPN connection in the AWS Management Console, downloads the configuration file, and installs it on the on-premises router. The tunnel is not coming up because of firewall restrictions on the router. Which two network traffic options should you allow through the firewall? (Choose two.)

- A. UDP port 500
- B. IP protocol 50
- C. IP protocol 5
- D. TCP port 50
- E. TCP port 500

ANSWER: A B**Explanation:**

References: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_VPN.html

QUESTION NO: 13

Your company has decided to deploy AWS WorkSpaces for its hosted desktop solution. Your manager is very concerned with security and cost, as well as reliability. What two things should be deployed? (Choose two.)

- A. VPN
- B. AWS Hosted AD
- C. Direct Connect
- D. AD Connector

ANSWER: C D**Explanation:**

A VPN should be deployed over Direct Connect to ensure the traffic is encrypted. You would use an AD Connector here since it doesn't cache any credentials in the cloud. AWS Hosted AD is more expensive and caches credentials.

QUESTION NO: 14

From the following options, select the answer that correctly describes the implementation of the HTTP protocol

- A. By definition, HTTP is a connection-less oriented protocol and therefore utilises TCP
- B. By definition, HTTP is a connection orientated protocol and therefore utilises TCP
- C. By definition, HTTP is a connection-less oriented protocol and therefore utilises UDP
- D. By definition, HTTP can be configured to be either connection or connection-less oriented – by specifying the appropriate HTTP header.

ANSWER: B

Explanation:

HTTP is a connection orientated protocol and therefore utilizes TCP

Reference: https://en.wikipedia.org/wiki/Hypertext_Transfer_Protocol

QUESTION NO: 15

A gaming company is running an online multiplayer game in multiple AWS Regions. The company needs traffic from its end users to be routed to the Region that is closest to the end users geographically. When maintenance occurs in a Region, traffic must be routed to the next closest Region with no changes to the IP addresses being used as connections by the end users.

Which solution will meet these requirements?

- A. Create an Amazon CloudFront distribution in front of all the Regions
- B. Use an Amazon Route 53 geoproximity routing policy to navigate traffic to the closest Region
- C. Use an Amazon Route 53 geolocation routing policy to navigate traffic to the closest Region
- D. Configure AWS Global Accelerator in front of all the Regions

ANSWER: D

QUESTION NO: 16

A computing team is evaluating whether to place a high performance computing (HPC) application in AWS. The team is concerned about application performance and wants to know what options are available to increase networking performance.

Which of the following changes would increase performance for this application? (Choose two.)

- A. Place the application across many smaller instances to achieve higher total throughput.
- B. Increase the MTU of the VPC to 9001.
- C. Enable an MTU of 9001 in the application's operating system.

- D. Enable enhanced networking on the instances.
- E. Deploy the application in two Availability Zones and insert them in one placement group.

ANSWER: B D

QUESTION NO: 17

An organization will be extending its existing on-premises infrastructure into the cloud. The design consists of a transit VPC that contains stateful firewalls that will be deployed in a highly available configuration across two Availability Zones for automatic failover.

What **MUST** be configured for this design to work? (Choose two.)

- A. A different Autonomous System Number (ASN) for each firewall
- B. Border Gateway Protocol (BGP) routing
- C. Autonomous system (AS) path prepending
- D. Static routing
- E. Equal-cost multi-path routing (ECMP)

ANSWER: B E

QUESTION NO: 18

You use a VPN to extend your corporate network into a VPC. Instances in the VPC are able to resolve resource records in an Amazon Route 53 private hosted zone. Your on-premises DNS server is configured with a forwarder to the VPC DNS server IP address. On-premises users are unable to resolve names in the private hosted zone, although instances in a peered VPC can.

What should you do to provide on-premises users with access to the private hosted zone?

- A. Create a proxy resolver within the VPC. Point the on-premises forwarder to the proxy resolver.
- B. Modify the network access control list on the VPC to allow DNS queries from on-premises systems.
- C. Configure the on-premises server as a secondary DNS for the private zone. Update the NS records.
- D. Update the on-premises forwarders with the four name servers assigned to the private hosted zone.

ANSWER: D

Explanation:

References: <https://aws.amazon.com/blogs/security/how-to-set-up-dns-resolution-between-on-premises-networks-and-aws-by-using-unbound/>

QUESTION NO: 19

You need to create a subnet in a VPC that supports 1000 hosts. You need to be as accurate as possible since you run a very large company. What CIDR should you use?

- A. /16
- B. /24
- C. /7
- D. /22

ANSWER: D**Explanation:**

/22 supports 1019 hosts since AWS reserves 5 addresses.

QUESTION NO: 20

A company uses a newly provisioned 1-Gbps AWS Direct Connect connection to configure a virtual interface for access to Amazon S3

Which configuration values is the network engineer required to provide? (Select TWO.)

- A. Connection speed
- B. VLAN ID
- C. IP prefixes to advertise
- D. Direct Connect location
- E. Virtual private gateway

ANSWER: B E