ANS-C00^{Q&As}

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QUESTION 1

You need to create a subnet in a VPC that supports 14 hosts. You need to be as accurate as possible since you run a very large company. What CIDR should you use?

A. /28

B. /24

C. /25

D. /27

Correct Answer: D

Explanation:

/27 supports 27 hosts since AWS reserves 5 addresses. /25 supports 123 hosts, /28 supports 11, /24

supports 251.

QUESTION 2

To directly manage your CloudTrail security layer, you can use _____ for your CloudTrail log files A. SSE-S3

B. SCE-KMS

C. SCE-S3

D. SSE-KMS

Correct Answer: D

Explanation: By default, the log files delivered by CloudTrail to your bucket are encrypted by Amazon server-side encryption with Amazon S3-managed encryption keys (SSE-S3). To provide a security layer that is directly manageable, you can instead use server-side encryption with AWS KMS-managed keys (SSE-KMS) for your CloudTrail log files.

Reference: http://docs.aws.amazon.com/awscloudtrail/latest/userguide/encrypting-cloudtrail-log-files-withaws-kms.html

QUESTION 3

You are auditing an AWS infrastructure after you noticed some abnormal charges on the bill. You use AWS Config to monitor your changes. What else is required to find out who made the change?

A. There is no information to find this. You will need to sign up for Config Premium.

B. Use the eventID of the change and reference it with your Flow Logs.

C. Use the eventId of the change and reference it with CloudTrail to find the culprit.

D. Use the eventID of the change and reference it with CloudWatch to find the culprit.

Correct Answer: C

Explanation:

CloudTrail is for finding "who" performed an action.

QUESTION 4

You manage a web service that is used by client applications deployed in 300 offices worldwide. The web service architecture is an Elastic Load balancer (ELB) distributing traffic across four application servers deployed in an autoscaling group across two availability zones.

The ELB is configured to use round robin, and sticky sessions are disabled. You have configured the NACLs and Security Groups to allow port 22 from your bastion host, and port 80 from 0.0.0.0/0. The client configuration is managed by each regional IT team.

Upon inspection you find that a large amount of requests from incorrectly configured sites are causing a single application server to degrade. The remainder of the requests are equally distributed across all servers with no negative effects.

What should you do to remedy the situation and prevent future occurrences?

A. Mark the affected instance as degraded in the ELB and raise it with the client application team.

B. Update the NACL to only allow port 80 to the application servers from the ELB servers.

C. Update the Security Groups to only allow port 80 to the application servers from the ELB.

D. Terminate the affected instance and allow Auto Scaling to create a new instance.

Correct Answer: D

QUESTION 5

With respect to Amazon CloudFront, which one of the following statements is correct?

A. For HTTPS web distributions, you cannot forward cookies to your origin.

B. For both HTTP and HTTPS web distributions, you can choose to forward cookies to your origin.

C. For HTTP web distributions, you cannot forward cookies to your origin.

D. For Real Time Messaging Protocol (RTMP) distributions, you can configure CloudFront to process cookies.

Correct Answer: B

Explanation:

With respect to Amazon CloudFront, for HTTP and HTTPS web distributions, you can choose whether you

want CloudFront to forward cookies to your origin. For RTMP distributions, you cannot configure

CloudFront to process cookies.

Reference: http://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/Cookies.html

QUESTION 6

A network engineer deploys an application in a private subnet in a VPC that connects to many external video feed providers using RTMP over the internet. A NAT gateway has been deployed in a public subnet and is working as expected. From the Amazon EC2 instance, the application is able to connect to all feed providers except one, which hangs when connecting. Manually testing a connection from an Amazon EC2 instance in the public subnet to the problem feed indicates that the feed works as expected.

What is causing this issue?

A. The NAT gateway does not support fragmented packets.

B. The internet gateway only supports an MTU of 1500 bytes.

C. An Amazon EC2 instance expects to communicate with an MTU of 9001.

D. The security group on the instances does not allow PMTUD.

Correct Answer: D

QUESTION 7

You are building an application in AWS that requires Amazon Elastic MapReduce (Amazon EMR). The application needs to resolve hostnames in your internal, on-premises Active Directory domain. You update your DHCP Options Set in the VPC to point to a pair of Active Directory integrated DNS servers running in your VPC.

Which action is required to support a successful Amazon EMR cluster launch?

A. Add a conditional forwarder to the Amazon-provided DNS server.

B. Enable seamless domain join for the Amazon EMR cluster.

C. Launch an AD connector for the internal domain.

D. Configure an Amazon Route 53 private zone for the EMR cluster.

Correct Answer: B

References: https://aws.amazon.com/blogs/security/how-to-connect-your-on-premises-active-directory-toaws-using-ad-connector/

QUESTION 8

A company is running services in a VPC with a CIDR block of 10.5.0.0/22. End users report that they no longer can provision new resources because some of the subnets in the VPC have run out of IP addresses.

How should a network engineer resolve this issue?

A. Add 10.5.2.0/23 as a second CIDR block to the VPC. Create a new subnet with a new CIDR block, and provision new resources in the new subnet.

B. Add 10.5.4.0/21 as a second CIDR block to the VPC. Assign a second network from this CIDR block to the existing subnets that have run out of IP addresses.

C. Add 10.5.4.0/22 as a second CIDR block to the VPC. Assign a second network from this CIDR block to the existing subnets that have run out of IP addresses.

D. Add 10.5.4.0/22 as a second CIDR block to the VPC. Create a new subnet with a new CIDR block, and provision new resources in the new subnet.

Correct Answer: D

QUESTION 9

Which service would you use to see CPU usage?

A. CloudTrail

B. Config

C. CloudWatch

D. None of the above

Correct Answer: C

QUESTION 10

A company uses a single connection to the internet when connecting its on-premises location to AWS. It has selected an AWS Partner Network (APN) Partner to provide a point-to-point circuit for its first-ever 10 Gbps AWS Direct Connect connection.

What steps must be taken to order the cross-connect at the Direct Connect location?

A. Obtain the LOA/CFA from the APN Partner when ordering connectivity. Upload it to the AWS Management Console when creating a new Direct Connect connection. AWS will ensure that the cross-connect is installed.

B. Obtain the LOA/CFA from the AWS Management Console when ordering the Direct Connect connection. Provide it to the APN Partner when ordering connectivity. The Direct Connect partner will ensure that the cross-connect is installed.

C. Obtain one LOA/CFA each from the AWS Management Console and the APN Partner. Provide both to the Facility Operator of the Direct Connect location. The Facility Operator will ensure that the cross-connect is installed.

D. Identify the APN Partner in the AWS Management Console when creating the Direct Connect connection. Provide the resulting Connection ID to the APN Partner, who will ensure that the cross-connect is installed.

Correct Answer: C

QUESTION 11

You have a Simple AD deployment, and you wish to use it for your Microsoft Exchange email server. You are having issues finding the AD server, why might this be?

A. You need to contact AWS to receive a PTR record for your email server.

B. Your firewall is blocking it.

C. Simple AD is not a full Active Directory server and will not work with many MS products.

D. SSL is not implemented.

Correct Answer: C

Explanation:

Simple AD is Samba based and does not support full Microsoft AD integration.

QUESTION 12

You are the AWS cloud architect and have been tasked with designing an appropriate subnetting design for your production VPC. Your production VPC requires secure communications back to the corporate private network. Quality of Service (QoS) is very important 24 × 7 for this particular connection, as real-time data is passed continually backwards and forwards between your on-prem bioinformatics enterprise application, and the number crunching servers deployed in the cloud. Any potential latency incurred on this connection will have a direct impact on the company\\'s ability to attract investors and expansion into new markets.

Select the correct network configuration that best facilitates your company\\'s continued growth plans.

A. Provision a Direct Connect connection - between your service provider\\'s data center and the AWS region that your cloud compute resources exist in. Configure just a Private Virtual Interface. As this is a Direct Connection, a Virtual Private Gateway is not required

B. Configure a site-to-site layer 2 software router using OpenVPN within your VPC and ensure that QoS enabled - this is a secure and cheap option

C. Configure a site-to-site layer 3 software router using OpenVPN within your VPC and ensure that QoS enabled - this is a secure and cheap option

D. Provision a Direct Connect connection - between your existing service provider\\'s data center and the AWS region that your cloud compute resources exist in. Configure a Virtual Private Gateway and Private Virtual Interface

Correct Answer: D

Explanation: Answers A, B, and C all rely on an Internet connection. An Internet connection cannot guarantee QoS and will be subject to performance fluctuations - therefore they are all incorrect options. The only difference between these options is whether a Virtual Private Gateway is required - the answer is yes and therefore the correct answer is D.

Reference: https://aws.amazon.com/directconnect/faqs/

QUESTION 13

A network engineer is managing two AWS Direct Connect connections. Each connection has a public virtual interface configured with a private ASN. The engineer wants to configure active/passive routing between the Direct Connect connections to access Amazon public endpoints. What BGP configuration is required for the on-premises equipment? (Choose two.)

A. Use Local Pref to control outbound traffic.

B. Use AS Prepending to control inbound traffic.

C. Use eBGP multi-hop between loopback interfaces.

D. Use BGP Communities to control outbound traffic.

E. Advertise more specific prefixes over one Direct Connect connection.

Correct Answer: CE

QUESTION 14

You need to set up a VPN between AWS VPC and your on-premises network. You create a VPN connection in the AWS Management Console, download the configuration file, and install it on your on-premises router. The tunnel is not coming up because of firewall restrictions on your 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

Correct Answer: AB

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

QUESTION 15

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

Correct Answer: B

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