

# Amazon Web Services

## Exam Questions ANS-C01

AWS Certified Advanced Networking Specialty Exam



### NEW QUESTION 1

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 this centralized 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 endpoint
- 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 endpoint
- 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 endpoint
- 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 endpoint
- P. Associate the private hosted zone with the spoke VPCs in each AWS account.

**Answer: A**

### NEW QUESTION 2

A data analytics company has a 100-node high performance computing (HPC) cluster. The HPC cluster is for parallel data processing and is hosted in a VPC in the AWS Cloud. As part of the data processing workflow, the HPC cluster needs to perform several DNS queries to resolve and connect to Amazon RDS databases, Amazon S3 buckets, and on-premises data stores that are accessible through AWS Direct Connect. The HPC cluster can increase in size by five to seven times during the company's peak event at the end of the year.

The company is using two Amazon EC2 instances as primary DNS servers for the VPC. The EC2 instances are configured to forward queries to the default VPC resolver for Amazon Route 53 hosted domains and to the on-premises DNS servers for other on-premises hosted domain names. The company notices job failures and finds that DNS queries from the HPC cluster nodes failed when the nodes tried to resolve RDS and S3 bucket endpoints.

Which architectural change should a network engineer implement to provide the DNS service in the MOST scalable way?

- A. Scale out the DNS service by adding two additional EC2 instances in the VP
- B. Reconfigure half of the HPC cluster nodes to use these new DNS server
- C. Plan to scale out by adding additional EC2instance-based DNS servers in the future as the HPC cluster size grows.
- D. Scale up the existing EC2 instances that the company is using as DNS server
- E. Change the instance size to the largest possible instance size to accommodate the current DNS load and theanticipated load in the future.
- F. Create Route 53 Resolver outbound endpoint
- G. Create Route 53 Resolver rules to forward queries to on-premises DNS servers for on premises hosted domain name
- H. Reconfigure the HPC cluster nodes to use the default VPC resolver instead of the EC2 instance-based DNS server
- I. Terminate the EC2 instances.
- J. Create Route 53 Resolver inbound endpoint
- K. Create rules on the on-premises DNS servers to forward queries to the default VPC resolve
- L. Reconfigure the HPC cluster nodes to forward all DNS queries to the on-premises DNS server
- M. Terminate the EC2 instances.

**Answer: C**

### NEW QUESTION 3

You deploy an Amazon EC2 instance that runs a web server into a subnet in a VPC. An Internet gateway is attached, and the main route table has a default route (0.0.0.0/0) configured with a target of the Internet gateway.

The instance has a security group configured to allow as follows:

- > Protocol: TCP
- > Port: 80 inbound, nothing outbound

The Network ACL for the subnet is configured to allow as follows:

- > Protocol: TCP
- > Port: 80 inbound, nothing outbound

When you try to browse to the web server, you receive no response. Which additional step should you take to receive a successful response?

- A. Add an entry to the security group outbound rules for Protocol: TCP, Port Range: 80
- B. Add an entry to the security group outbound rules for Protocol: TCP, Port Range: 1024-65535
- C. Add an entry to the Network ACL outbound rules for Protocol: TCP, Port Range: 80
- D. Add an entry to the Network ACL outbound rules for Protocol: TCP, Port Range: 1024-65535

**Answer: D**

### Explanation:

To enable the connection to a service running on an instance, the associated network ACL must allow both inbound traffic on the port that the service is listening on as well as allow outbound traffic from ephemeral ports. When a client connects to a server, a random port from the ephemeral port range (1024-65535) becomes the client's source port. The designated ephemeral port then becomes the destination port for return traffic from the service, so outbound traffic from the ephemeral port must be allowed in the network ACL.<https://aws.amazon.com/premiumsupport/knowledge-center/resolve-connection-sg-acl-inbound/>

#### NEW QUESTION 4

A company is planning a migration of its critical workloads from an on-premises data center to Amazon EC2 instances. The plan includes a new 10 Gbps AWS Direct Connect dedicated connection from the on-premises data center to a VPC that is attached to a transit gateway. The migration must occur over encrypted paths between the on-premises data center and the AWS Cloud.

Which solution will meet these requirements while providing the HIGHEST throughput?

- A. Configure a public VIF on the Direct Connect connectio
- B. Configure an AWS Site-to-Site VPN connection to the transit gateway as a VPN attachment.
- C. Configure a transit VIF on the Direct Connect connectio
- D. Configure an IPsec VPN connection to an EC2 instance that is running third-party VPN software.
- E. Configure MACsec for the Direct Connect connectio
- F. Configure a transit VIF to a Direct Connect gateway that is associated with the transit gateway.
- G. Configure a public VIF on the Direct Connect connectio
- H. Configure two AWS Site-to-Site VPN connections to the transit gatewa
- I. Enable equal-cost multi-path (ECMP) routing.

**Answer: C**

#### Explanation:

<https://aws.amazon.com/blogs/networking-and-content-delivery/adding-macsec-security-to-aws-direct-connect-c>

#### NEW QUESTION 5

A company is using an AWS Site-to-Site VPN connection from the company's on-premises data center to a virtual private gateway in the AWS Cloud. Because of congestion, the company is experiencing availability and performance issues as traffic travels across the internet before the traffic reaches AWS. A network engineer must reduce these issues for the connection as quickly as possible with minimum administration effort.

Which solution will meet these requirements?

- A. Edit the existing Site-to-Site VPN connection by enabling acceleratio
- B. Stop and start the VPN service on the customer gateway for the new setting to take effect.
- C. Configure a transit gateway in the same AWS Region as the existing virtual private gatewa
- D. Create a new accelerated Site-to-Site VPN connectio
- E. Connect the new connection to the transit gateway by using a VPN attachmen
- F. Update the customer gateway device to use the new Site to Site VPN connectio
- G. Delete the existing Site-to-Site VPN connection
- H. Create a new accelerated Site-to-Site VPN connectio
- I. Connect the new Site-to-Site VPN connection to the existing virtual private gatewa
- J. Update the customer gateway device to use the new Site-to-Site VPN connectio
- K. Delete the existing Site-to-Site VPN connection.
- L. Create a new AWS Direct Connect connection with a private VIF between the on-premises data center and the AWS Clou
- M. Update the customer gateway device to use the new Direct Connect connectio
- N. Delete the existing Site-to-Site VPN connection.

**Answer: B**

#### NEW QUESTION 6

A company's development team has created a new product recommendation web service. The web service is hosted in a VPC with a CIDR block of 192.168.224.0/19. The company has deployed the web service on Amazon EC2 instances and has configured an Auto Scaling group as the target of a Network Load Balancer (NLB).

The company wants to perform testing to determine whether users who receive product recommendations spend more money than users who do not receive product recommendations. The company has a big sales event in 5 days and needs to integrate its existing production environment with the recommendation engine by then. The existing production environment is hosted in a VPC with a CIDR block of 192.168.128.0/17.

A network engineer must integrate the systems by designing a solution that results in the least possible disruption to the existing environments.

Which solution will meet these requirements?

- A. Create a VPC peering connection between the web service VPC and the existing production VP
- B. Add a routing rule to the appropriate route table to allow data to flow to 192.168.224.0/19 from the existing production environment and to flow to 192.168.128.0/17 from the web service environmen
- C. Configure the relevant security groups and ACLs to allow the systems to communicate.
- D. Ask the development team of the web service to redeploy the web service into the production VPC and integrate the systems there.
- E. Create a VPC endpoint servic
- F. Associate the VPC endpoint service with the NLB for the web service. Create an interface VPC endpoint for the web service in the existing production VPC.
- G. Create a transit gateway in the existing production environmen
- H. Create attachments to the production VPC and the web service VP
- I. Configure appropriate routing rules in the transit gateway and VPC route tables for 192.168.224.0/19 and 192.168.128.0/17. Configure the relevant security groups and ACLs to allow the systems to communicate.

**Answer: C**

#### NEW QUESTION 7

A company has deployed an AWS Network Firewall firewall into a VPC. A network engineer needs to implement a solution to deliver Network Firewall flow logs to the company's Amazon OpenSearch Service (Amazon Elasticsearch Service) cluster in the shortest possible time.

Which solution will meet these requirements?

- A. Create an Amazon S3 bucke
- B. Create an AWS Lambda function to load logs into the Amazon OpenSearch Service (Amazon Elasticsearch Service) cluste
- C. Enable Amazon Simple Notification Service (Amazon SNS) notifications on the S3 bucket to invoke the Lambda functio
- D. Configure flow logs for the firewal
- E. Set the S3 bucket as the destination.
- F. Create an Amazon Kinesis Data Firehose delivery stream that includes the Amazon OpenSearch Service (Amazon Elasticsearch Service) cluster as the destinatio

- G. Configure flow logs for the firewall Set the Kinesis Data Firehose delivery stream as the destination for the Network Firewall flow logs.
- H. Configure flow logs for the firewal
- I. Set the Amazon OpenSearch Service (Amazon Elasticsearch Service) cluster as the destination for the Network Firewall flow logs.
- J. Create an Amazon Kinesis data stream that includes the Amazon OpenSearch Service (Amazon Elasticsearch Service) cluster as the destinatio
- K. Configure flow logs for the firewal
- L. Set the Kinesis data stream as the destination for the Network Firewall flow logs.

**Answer: B**

**Explanation:**

<https://aws.amazon.com/blogs/networking-and-content-delivery/how-to-analyze-aws-network-firewall-logs-usin>

**NEW QUESTION 8**

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 traffi
- 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 traffi
- 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 sourc
- H. Specify the EC2 instances as the destinatio
- 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 sourc
- L. Specify the EC2 instances as the destinatio
- 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 fai
- 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 9**

A company has deployed an application in a VPC that uses a NAT gateway for outbound traffic to the internet. A network engineer notices a large quantity of suspicious network traffic that is traveling from the VPC over the internet to IP addresses that are included on a deny list. The network engineer must implement a solution to determine which AWS resources are generating the suspicious traffic. The solution must minimize cost and administrative overhead. Which solution will meet these requirements?

- A. Launch an Amazon EC2 instance in the VP
- B. Use Traffic Mirroring by specifying the NAT gateway as the source and the EC2 instance as the destinatio
- C. Analyze the captured traffic by using open-source tools to identify the AWS resources that are generating the suspicious traffic.
- D. Use VPC flow log
- E. Launch a security information and event management (SIEM) solution in the VP
- F. Configure the SIEM solution to ingest the VPC flow log
- G. Run queries on the SIEM solution to identify the AWS resources that are generating the suspicious traffic.
- H. Use VPC flow log
- I. Publish the flow logs to a log group in Amazon CloudWatch Log
- J. Use CloudWatch Logs Insights to query the flow logs to identify the AWS resources that are generating the suspicious traffic.
- K. Configure the VPC to stream the network traffic directly to an Amazon Kinesis data strea
- L. Send the data from the Kinesis data stream to an Amazon Kinesis Data Firehose delivery stream to store the data in Amazon S3. Use Amazon Athena to query the data to identify the AWS resources that are generating the suspicious traffic.

**Answer: C**

**NEW QUESTION 10**

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 VPCcreate forwarding rules for the on-premises hosted domain
- I. Associate the rules with the new Resolver endpoint and each application VPUpdate 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 11**

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