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Designing Cisco Network Service Architectures

Cisco 300-320

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QUESTION NO: 1

An engineering team must design a firewall solution with shared hardware resources but separation of features such as ACLs, NATs and management between the external business partners of the organization. Which ASA deployment mode meets these requirements?

- A.** routed mode
- B.** transparent mode
- C.** multicontext mode
- D.** clustering mode

ANSWER: C

QUESTION NO: 2

Which first-hop redundancy protocol that was designed by Cisco allows packet load sharing among groups of redundant routers?

- A.** GLBP
- B.** HSRP
- C.** VRRP
- D.** VSS

ANSWER: A

QUESTION NO: 3

Which three authentication services are supported by Cisco NAC Appliance? (Choose three.)

- A.** RADIUS
- B.** LDAP
- C.** Kerberos
- D.** TACACS+
- E.** local
- F.** SNMP

ANSWER: A B C

QUESTION NO: 4

A network manager wants to securely connect a new remote site to the existing headquarters site using a VPN technology that meets security requirements. Which VPN technology should be used?

- A.** GRE

- B. IPsec
- C. remote-access VPN
- D. L2TP VPN

ANSWER: B

QUESTION NO: 5

A network engineer is using OTV to connect six data centers.

Which option is preferred when deploying OTV to more than three sites?

- A. Use unicast-only transport.
- B. Avoid multihoming.
- C. Use multicast-enabled transport.
- D. Filter MAC addresses at the join interface.

ANSWER: C

QUESTION NO: 6

A network engineer must select a network technology to simplify the extension of Layer 2 networks between data centers with a requirement of less than 4,000 VLANs.

Which two network technologies accomplish this requirement? (Choose two.)

- A. MPLS
- B. L2TP
- C. VXLAN
- D. LISP
- E. OTV

ANSWER: A B

QUESTION NO: 7

What are three primary components in IS-IS fast convergence? (Choose three.)

- A. event propagation
- B. LSP flooding
- C. fast hellos
- D. matching MTUs

E. updating RIB and FIB

F. SPF calculation

ANSWER: A E F

QUESTION NO: 8

An engineer is working on a design solution for a large hub-and-spoke EIGRP network. Which feature helps to make this design more stable while also reducing resource utilization?

A. QoS

B. network summarization

C. stub routing

D. route filtering

ANSWER: C

Explanation:

Reference: https://www.cisco.com/en/US/technologies/tk648/tk365/technologies_white_paper0900aecd8023df6f.html

QUESTION NO: 9

A device failure in an active/active ASA firewall pair caused an outage. An engineer wants to ensure that load balancing across the firewall pair and automatic failover is permitted. Which traffic engineering method must be used?

A. IP SLA

B. BFD

C. ASR groups

D. ECMP

ANSWER: A

QUESTION NO: 10

Which two methods are available to connect a Cisco IOS device to an active directory domain for authentication? (Choose two.)

A. Lightweight Directory Access Protocol

B. DNS Based Authentication of Named Entities

C. Microsoft Challenge-Handshake Authentication Protocol

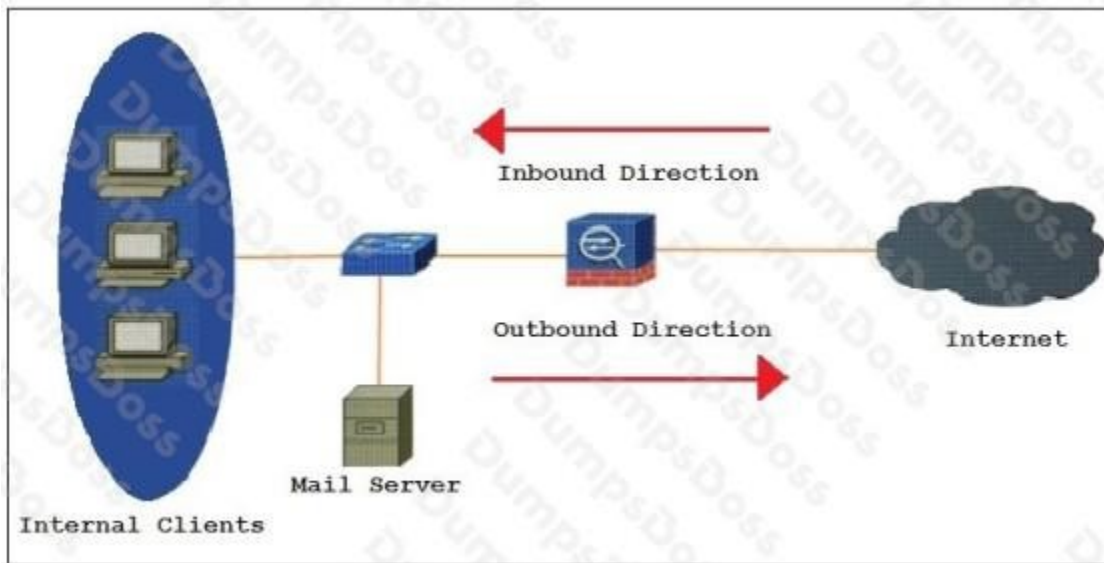
D. RADIUS server

E. Directory Access Protocol

ANSWER: A D

QUESTION NO: 11

View the Exhibit.



Refer to the exhibit. An engineer is designing a new firewall for an organization and must provision Network Address Translation. This new firewall must support basic Internet access for the organization as well as provide inbound connectivity to the mail server. The infrastructure has only one public IP address available for use on the new firewall.

Which two forms of NAT must be configured? (Choose two.)

- A. static NAT for the inbound traffic on port 25
- B. dynamic NAT for the inbound traffic on port 25
- C. dynamic NAT for the outbound traffic
- D. NAT overloading for the outbound traffic
- E. NAT overloading for the inbound traffic on port 25

ANSWER: A D

QUESTION NO: 12

A customer has an existing WAN circuit with a capacity of 10 Mbps. The circuit has 6 Mbps of various user traffic and 5 Mbps of real-time audio traffic on average. Which two measures could be taken to avoid loss of real time traffic? (Choose two.)

- A. Police the traffic to 3.3 Mbps and allow excess traffic to be remarked to the default queue.
- B. Configure congestion avoidance mechanism WRED within the priority queue.
- C. Ensure that real time traffic is prioritized over other traffic.
- D. Police the traffic to 5 Mbps and allow excess traffic to be remarked to the default queue.
- E. Increase the WAN circuit bandwidth.

ANSWER: C E

QUESTION NO: 13

Which method does Cisco recommend for deploying OTV to multiple data centers?

- A. Use unicast-only transport.
- B. Use multicast-enabled transport.
- C. Filter MAC addresses at the join interface.
- D. Configure one edge device for each data center.

ANSWER: B

QUESTION NO: 14

Which technology fulfills these requirements?

▪ Utilize a connection that must support a range of traffic, voice, video, and data. ▪ This traffic must also support transmission via a fixed blank 53-byte cell.

- A. PPP
- B. Frame Relay
- C. ATM
- D. MPLS
- E. X.25

ANSWER: C