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300-320

Designing Cisco Network Service Architectures

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Question: 1

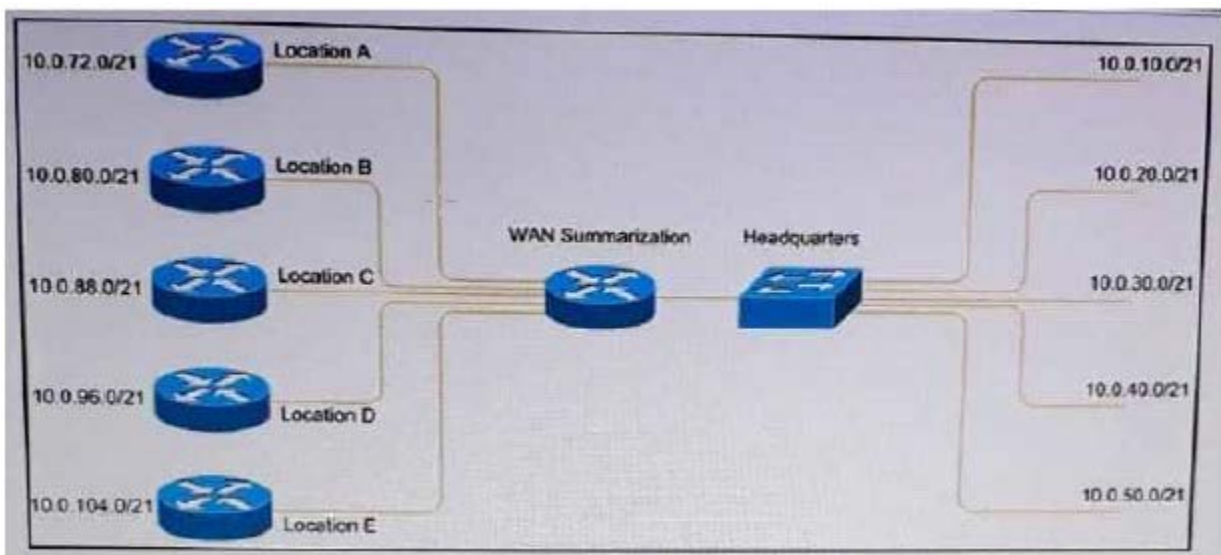
Where should loop guard be implemented in a campus network design?

- A. Ports configured with port fast
- B. Alternate ports only
- C. Ports configured with root guard
- D. Alternate, backup and root ports

Answer: D

Question: 2

Refer to the exhibit.



An engineer must apply IP addressing to five new WAN sites and chooses the new subnets pictured. The previous administrator applied the addressing at Headquarters. Which option is the minimum summary range to cover the existing WAN sites while also allowing for three additional WAN sites of the same size, for future growth?

- A. 10.0.60.0/18
- B. 10.0.64.0/21
- C. 10.0.64.0/17
- D. 10.0.0.0/17
- E. 10.0.64.0/18

Answer: E

Question: 3

Which two options are features of a scalable cluster design utilizing Cisco ASA firewalls?
(Choose two)

- A. Each cluster supports up to 10 ASA devices.
- B. The design supports up to 100 Gbps of aggregate traffic.
- C. Each member of the cluster can forward every traffic flow.
- D. The design supports up to 1 Terabyte of aggregate traffic.
- E. The ASA cluster actively load balances traffic flows.

Answer: BC

Question: 4

Which action should be taken when implementing a preferred IPS design?

- A. Place the management interface on a separate VLAN
- B. Place all sensors on PVLAN community ports
- C. Place the management interface on the same VLAN
- D. Place the monitoring interface on the inside network

Answer: A

Question: 5

How does OTV provide STP isolation?

- A. By using STP root optimization
- B. By using BPDU guard
- C. By dropping BPDU packets
- D. By using BPDU filtering

Answer: C

Question: 6

A LAN infrastructure consists of switches from multiple vendors. Spanning Tree is used as a Layer 2 loop prevention mechanism. All configured VLANs must be grouped in two STP instances. Which standards-based Spanning Tree technology must be used?

- A. MSTP
- B. Rapid PVST
- C. STP
- D. RSTP

Answer: A

Question: 7

An engineer is working on an OSPF network design and wants to minimize the failure detection time and the impact on the router CPU. Which technology accomplishes this goal?

- A. LSA pacing
- B. LSA delay interval
- C. BFD
- D. Fast hellos

Answer: C

Question: 8

An engineer wants to assure that hosts can locate routers that can be used as a gateway to reach IP-based devices on other networks. Which first hop redundancy protocol accomplishes this goal?

- A. VRRP
- B. GLBP
- C. IRDP
- D. HSRP
- E. GSLB

Answer: A

Question: 9

What added enforcement feature is available on IDS-based devices to terminate active malicious traffic?

- A. Signature detection
- B. TCP reset
- C. SNMP alert
- D. Layer 4 filtering

Answer: B

Question: 10

An OSPF router should have a maximum of how many adjacent neighbors?

- A. 80
- B. 60
- C. 100
- D. 50

Answer: B

Question: 11

While configuring a QoS policy, analysis of the switching infrastructure indicates that the switches support 1P3Q3T egress queuing. Which option describes the egress queuing in the infrastructure?

- A. The threshold configuration allows for inter-queue QoS by utilizing buffers.
- B. The priority queue must contain real-time traffic and network management traffic.
- C. The 1P3Q3T indicates one priority queue, three standard queues, and three thresholds.
- D. The priority queue should use less than 20% of the total bandwidth.

Answer: B

Question: 12

An engineer is redesigning the infrastructure for a campus environment. The engineer must maximize the use of the links between the core and distribution layers. By which two methods can this usage be maximized? (Choose two.)

- A. Design the links between the core and distribution layers to use RIPv2
- B. Design with multiple unequal-cost links between the core and distribution layers.
- C. Design the links between the core and distribution layers to use an IGP
- D. Design the links between the core and distribution layers to use HSRP.
- E. Design with multiple equal-cost links between the core and distribution layers.

Answer: A, D

Question: 13

Which two characteristics of the 802.1X standard are true? (Choose two.)

- A. This standard supports only wired LANs.
- B. It can package EAP messages in Ethernet frames and not use PPP.
- C. It was created by IEEE
- D. It was created by IETF
- E. Its EAP messages always require underlying PPP protocol

Answer: B, C

Question: 14

An engineer must create this design:

- Restrict certain networks from being advertised to remote branches connected via eBGP.
- Prohibit advertisement of the specific prefix to external peers only.

Which BGP community must be configured to meet these requirements?

- A. no-advertise
- B. no-export
- C. internet
- D. gshut
- E. local-as

Answer: B

Question: 15

Which design technology allows two Cisco Catalyst chassis to use SSO and NSF to provide nonstop communication even if one of the member chassis fails?

- A. peer gateway
- B. VSS
- C. vPC
- D. auto chassis detect

Answer: B

Question: 16

An engineer is designing a redundant dual-homed BGP solution that should prefer one specific carrier under normal conditions. Traffic should automatically fail over to a secondary carrier in case of a failure. Which two BGP attributes can be used to achieve this goal for inbound traffic?

- A. AS-PATH
- B. weight
- C. origin
- D. local preference
- E. MED

Answer: A, E

Question: 17

A large scale IP SLA deployment is causing memory and CPU shortages on the routers in an enterprise network. Which solution can be implemented to mitigate these issues?

- A. a shadow router
- B. a CPE device that is managed by the network provider
- C. a standby router for failover operation
- D. an offline router for disaster recovery

Answer: A

Question: 18

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

Answer: B

Question: 19

A network team is designing a Layer 3 Data Center Interconnect between two data centers. There is a requirement for all links of equal bandwidth be utilized have automatic failover and not use any bundling technology. Which routing function must be used to achieve this requirement?

- A. virtual links
- B. virtual private LAN service
- C. policy-based routing
- D. BGP route reflectors
- E. equal cost multipath routing

Answer: E

Question: 20

A company is multihomed to different service providers running BGP. Which action ensures that the company AS does not become a transit AS?

- A. Create a prefix list that matches the company prefix(es) and applies to both BGP neighbor definitions in the outbound direction.
- B. Create a distribute list that filters all routes except the default route and applies to a single BGP neighbor in the outbound direction.
- C. Create a route map that matches the provider BGP communities and networks and applies to both BGP neighbor interfaces in the outbound direction.
- D. Create a distribute list that filters all routes except the default route and applies to both BGP neighbor interfaces in the inbound direction.

Answer: A

Question: 21

Refer to the exhibit.

```
<b>GigabitEthernet0/0 is up, line protocol is up Hardware is CN
Gigabit Ethernet, address is 4c00.8200.0000 (bia 4c00.
8200.0000)
...
Internet address is 10.3.3.3/24
MTU 1500 bytes, BW 50000 Kbit/sec, DLY 10 usec,
reliability 255/255, txload 5/255, rxload 9/255
...
Full Duplex, 1Gbps, media type is RJ45</b>
```

An engineering team is analyzing the WAN connection for a site that has a 50 Mbps Ethernet circuit. Which technology should be used to keep the router from overrunning the carrier's 50 Mbps rate?

- A. shaping

-
- B. Access Control List
 - C. Committed Information Rate
 - D. Rate-Limit
 - E. Policing

Answer: C

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