



300-320^{Q&As}

Designing Cisco Network Service Architectures

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QUESTION 1

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

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

Correct Answer: C

https://www.cisco.com/en/US/technologies/tk869/tk769/technologies_white_paper0900aecd806bfb52.html

QUESTION 2

Which two benefits are achieved if a network is designed properly with a structured addressing scheme? (Choose two.)

- A. efficient ACLs
- B. improved redundancy
- C. hardened security
- D. easier troubleshooting
- E. added resiliency

Correct Answer: AD

QUESTION 3

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

Correct Answer: B

QUESTION 4



An engineer has implemented a QOS architecture that requires a signaling protocol to tell routers which flows of packets require special treatment. Which two mechanisms are important to establish and maintaining QOS architecture? (choose two)

- A. classification
- B. tagging
- C. packet scheduling
- D. admission control
- E. resource reservation

Correct Answer: DE

QUESTION 5

When you configure a multichassis setup with VSS, which link must be configured to extend the backplane between the two switches?

- A. VSL
- B. LCAP
- C. PaGP
- D. ISL

Correct Answer: A

QUESTION 6

Which three options are the three layers of the Cisco design in the data center architecture? (Choose three.)

- A. core layer
- B. distribution layer
- C. service layer
- D. aggregation layer
- E. Layer 2 domain sizing
- F. access layer

Correct Answer: ADF

QUESTION 7



Distinct, physical redundancy within a network layer is a key characteristic that contributes to the high availability of the hierarchical network design. Which of the following is not an examples of this model?

- A. SAN extension with dual fabrics such as a yellow VSAN and a blue VSAN utilized via multipath software
- B. Redundant power supplies and hot-swappable fan trays in Aggregate switches
- C. A single SAN fabric with redundant uplinks and switches
- D. Servers using network adapter teaming software connected to dual-attached access switches

Correct Answer: C

You cannot have a single SAN fabric. In SAN, you always need to have 2 fabrics (2 path).

QUESTION 8

An engineer is considering uplink bandwidth over-subscription in a Layer 3 network design. Which option is the Cisco recommended over-subscription ratio for uplinks between the distribution and core layers?

- A. 3 to 1
- B. 4 to 1
- C. 6 to 1
- D. 8 to 1

Correct Answer: B

QUESTION 9

Two companies want to merge their OSPF networks, but they run different OSPF domains. Which option must be taken to accomplish this requirement?

- A. OSPF virtual link to bridge the backbone areas of the two company together
- B. Route Summarization
- C. Static OSPF
- D. Redistribute routes between domains

Correct Answer: A

From my CCIE colleague:

To join two companies probably best to statically route between ASBRs – if the companies are to merge as one then you would merge area 0 using virtual link.

QUESTION 10



Which ISP technology can be implemented as a service when designing a topology to perform extranet connectivity via multitenant segmentation from within a corporate intranet?

- A. Cisco Easy VPN
- B. GRE over IPsec
- C. MPLS
- D. VTI
- E. VPNaaS

Correct Answer: C

QUESTION 11

Which of these is true of IP addressing with regard to VPN termination?

- A. addressing designs need to allow for summarization
- B. termination devices need routable addresses inside the VPN
- C. IGP routing protocols will update their routing tables over an IPsec VPN
- D. designs should not include overlapping address spaces between sites, since NAT is not supported

Correct Answer: C

An IPsec VPN is an overlay on an existing IP Network. The VPN termination devices need routable IP addresses for the outside Internet connection. Private IP address can be used on the inside of the VPN. Just a good IP network design supports summarization, the VPN address space needs to be designed to allow for network summarization. NAT may be needed to support overlapping address space between sites in an organization.

QUESTION 12

There are 3 steps to confirm whether a range of IP addresses can be summarized. Which of the following is used in each of these 3 steps?

- A. The first number in the contiguous block of addresses
- B. The last number in the contiguous block of addresses
- C. The size of the contiguous block of addresses
- D. The subnet mask of the original network address

Correct Answer: C

QUESTION 13



Which two of these are correct regarding the recommended practice for distribution layer design? (Choose two.)

- A. use a redundant link to the core
- B. use a Layer 2 link between distribution switches
- C. never use a redundant link to the core because of convergence issues
- D. use a Layer 3 link between distribution switches with route summarization
- E. use a Layer 3 link between distribution switches without route summarization

Correct Answer: AE

We need to summarize from distribution to core but not between distribution switches.

QUESTION 14

For which engine an IPS can use its reputation awareness? (Choose two)

- A. Reputation filtering
- B. Reputation subscriptions
- C. Correlation rules
- D. Global correlation inspection

Correct Answer: AC

http://www.cisco.com/c/en/us/products/collateral/security/ips-4500-series-sensors/white_paper_c11-715386.html

QUESTION 15

A customer would like to implement a firewall to secure an enterprise network. However, the customer is unable to allocate any new subnets. What type of firewall mode must be implemented?

- A. routed
- B. active/standby
- C. transparent
- D. virtual
- E. active/active
- F. zone based

Correct Answer: C



QUESTION 16

Which QoS architecture provides scalability of implementation?

- A. IntServ
- B. DiffServ
- C. LLQ
- D. RSVP

Correct Answer: B

QUESTION 17

A company security policy states that their data center network must be segmented from the layer 3 perspective. The segmentation must separate various network security zones so that they do not exchange routing information and their traffic path must be completely segregated. which technology achieves this goal?

- A. VPC
- B. VXLAN
- C. VRF
- D. VDC

Correct Answer: C

QUESTION 18

A Layer 2 switch in the network has recently started broadcasting traffic out of every port and is impacting network performance. The engineering department determines that a MAC overflow attack is the cause. Which two features can protect and mitigate the damage of the attacks? (Choose two.)

- A. Storm Control
- B. Port Security
- C. SPAN
- D. BPDU Filters
- E. IP Source Guard
- F. VACLs

Correct Answer: AB

QUESTION 19



here are 3 steps to confirm whether a range of IP addresses can be summarized. Which of the following is used in each of these 3 steps?

- A. The first number in the contiguous block of addresses
- B. The last number in the contiguous block of addresses
- C. The size of the contiguous block of addresses
- D. The subnet mask of the original network address

Correct Answer: C

QUESTION 20

Which Nexus feature enables you to support server connectivity with one topology and address requirement for both high availability and high bandwidth?

- A. vPC
- B. vPC+
- C. Stackwise
- D. EvPC

Correct Answer: D

Enhanced vPC enables you to support server connectivity with one topology and address requirement for both high availability and high bandwidth. https://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/mkt_ops_guides/513_n1_1/n5k_enhanced_vpc.html#wp1159705

QUESTION 21

Given the addresses 10.10.16.0/24 and 10.10.23.0/24, which option is the best summary?

- A. 10.10.0.0/16
- B. 10.10.8.0/23
- C. 10.10.16.0/23
- D. 10.10.16.0/21

Correct Answer: D

QUESTION 22

Which VRF component ensures control plane separation between the different Layer 3 VPNs?

- A. FIB



- B. routing protocol instance
- C. RIB
- D. a subset of the router interfaces

Correct Answer: B

QUESTION 23

Out of band management. What is the best practice Cisco design?

- A. Data traffic should never pass or enter the management network
- B. In-band management as backup
- C. Enforce QoS
- D. Enable dynamic routing

Correct Answer: A

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Security/SAFE_RG/SAFE_rg/chap9.html#wp1054521 An OOB management network should be deployed using the following best practices: Provide network isolation Enforce access control Prevent data traffic from transiting the management network

QUESTION 24

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

Correct Answer: B

QUESTION 25

Which type of connectivity is required for VPLS?

- A. full mesh
- B. partial mesh
- C. star



D. bus

E. ring

Correct Answer: A

QUESTION 26

An engineer is designing a multitenant network that requires giving appropriate permission to limit access Which policy you choose?

A. vty base policy

B. role base policy

C. Route map

D. RBAC

Correct Answer: A

QUESTION 27

After an incident caused by a DDOS attack on a router, an engineer must ensure that the router is accessible and protected from future attacks without making any changes to traffic passing through the router. Which security function can be utilized to protect the router?

A. zone-based policy firewall

B. access control lists

C. class maps

D. control plane policing

Correct Answer: D

QUESTION 28

Multicast PIM-Sparse mode sends traffic overload. Which feature can reduce the multicast traffic in the access layer?

A. IGMP snooping

B. Filter at Boundaries

C. PIM Dense-Mode

D. MSDP

Correct Answer: A



I think solution for this one was to move STP root

QUESTION 29

A company has hired an entry-level network administrator for its new data center. The company CIO wants to give the administrator limited access on the newly configured Cisco Nexus 7000. Which feature should be used to allow limited access?

- A. NAC
- B. VDC
- C. RBAC
- D. vPC

Correct Answer: C

QUESTION 30

Multicast PIM-Sparse mode sends traffic overload. Which feature can reduce the multicast traffic in the access layer?

- A. IGMP snooping
- B. Filter at Boundaries
- C. PIM Dense-Mode
- D. MSDP

Correct Answer: A

QUESTION 31

A data center is being deployed, and one design requirement is to be able to readily scale server virtualization. Which IETF standard technology can provide this requirement?

- A. Transparent interconnection of Lots of Links
- B. data center bridging
- C. cisco fabric path
- D. cisco unified fabric

Correct Answer: B

QUESTION 32



Port security supports which type of port?

- A. SPAN destination port
- B. EtherChannel port-channel port
- C. nonnegotiating trunk port
- D. DTP-enabled trunk port

Correct Answer: C

QUESTION 33

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

Correct Answer: C

QUESTION 34

Which network virtualization plane is used to separate traffic forwarding tables?

- A. control
- B. data
- C. management
- D. access

Correct Answer: B

QUESTION 35

A network engineer wants to limit the EIGRP query scope to avoid high CPU and memory utilization on low-end routers as well as limiting the possibility of a stuck- in-active routing event between HQ and branch offices.



Which way to achieve these goals?

- A. Configure different Autonomous System number per each branch office and HQ and redistribute routes between autonomous systems.
- B. Configure all routers at branch offices as EIGRP stub and allow only directly connected networks at branch offices to be advertised to HQ
- C. Configure all routers at branch offices as EIGRP stub
- D. Configure all routers at HQ and branch offices as EIGRP stub

Correct Answer: C

QUESTION 36

What is the most important consideration when selecting a VPN termination device?

- A. CPU cycles per second
- B. VPN sessions per interface
- C. Packets per second
- D. Bits per second

Correct Answer: C


QUESTION 37

DRAG DROP

Select and Place:

Drag the characteristic on the left to the corresponding IPsec VPN solution on the right.

Use a single GRE interface for static meshing with each spoke with Keepalive support	Easy VPN
Supports Multicast and dynamic peer discovery with on-demand tunnel creation	GRE over IPSEC
Provide end-to-end security for voice, video, and data in a native (nontunneled) mode	DMVPN
Easy to maintain, with no support required for dynamic routing, multicast or dynamic meshing	VTI
Use a virtual interface for static meshing	GET VPN




Correct Answer:



Drag the characteristic on the left to the corresponding IPsec VPN solution on the right.

	Easy to maintain, with no support required for dynamic routing, multicast, or dynamic meshing
	Use a single GRE interface for static meshing with each spoke with Keepalive support
	Supports Multicast and dynamic peer discovery with on-demand tunnel creation
	Use a virtual interface for static meshing
	Provide end-to-end security for voice, video, and data in (nontunneled) mode



QUESTION 38

Which two characteristics are most typical of a SAN? (Choose two.)

- A. NICs are used for network connectivity.
- B. Servers request specific blocks of data.
- C. Storage devices are directly connected to servers.
- D. A fabric is used as the hardware for connecting servers to storage devices.
- E. The TCO is higher because of the cost of director class storage switches.

Correct Answer: BD

QUESTION 39

What are two advantages of a L2 looped data center design model? (Choose two.)

- A. promotes Layer 2 high availability
- B. prevents VLAN propagation
- C. allows sharing of service modules
- D. eliminates the use of STP
- E. improves data transfer speeds

Correct Answer: AC

QUESTION 40



How does stub routing affect transit routes in EIGRP?

- A. Transit routes are passed from a stub network to a hub network.
- B. It is designed to prevent the distribution of external routes.
- C. It prevents the hub router from advertising networks learned from the spokes.
- D. Transit routes are filtered from stub networks to the network hub.

Correct Answer: D

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