

300-320^{Q&As}

Designing Cisco Network Service Architectures





Pass Cisco 300-320 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

<https://www.certbus.com/300-320.html>

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by Cisco
Official Exam Center

-  **Instant Download** After Purchase
-  **100% Money Back** Guarantee
-  **365 Days** Free Update
-  **800,000+** Satisfied Customers



QUESTION 1

Which network virtualization technology provides logical isolation of network traffic at Layer 3?

- A. VSS
- B. VLAN
- C. VRF-Lite
- D. MEC

Correct Answer: C

QUESTION 2

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

Correct Answer: A

QUESTION 3

Which two of these are recommended practices with trunks? (Choose two.)

- A. use ISL encapsulation
- B. use 802.1q encapsulation
- C. set ISL to desirable and auto with encapsulation negotiate to support ILS protocol negotiation
- D. use VTP server mode to support dynamic propagation of VLAN information across the network
- E. set DTP to desirable and desirable with encapsulation negotiate to support DTP protocol negotiation.

Correct Answer: BE

As a recommended practice, when configuring switch-to-switch interconnections to carry multiple VLANs, set Dynamic Trunking Protocol (DTP) to Desirable and Desirable with Encapsulation Negotiate to support DTP negotiation.

QUESTION 4

An organization is creating a detailed QoS plan that limits bandwidth to specific rates. Which three parameters can be configured when attempting to police traffic within the network? (Choose three)

- A. Conforming
- B. Violating
- C. Bursting
- D. Peak information rate
- E. Committed information rate
- F. Exceeding
- G. Shaping rate

Correct Answer: CDE

QUESTION 5

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 6

```
<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>
```



What should be implemented to prevent exceeding the 50mb allowable bandwidth of internet circuit?

- A. policing
- B. shaping
- C. CIR

D. rate-limit

Correct Answer: B

QUESTION 7

An engineer is configuring QoS to meet the following requirement. All traffic that exceeds the allocated bandwidth will still traverse the infrastructure, but will be buffered and queued for later transmission. Which QoS tool meets these requirements?

- A. Per-Hop behaviours
- B. Weighted Fair Queuing
- C. IP Precedence
- D. Shaping

Correct Answer: D

QUESTION 8

Which security function is inherent in an Application Centric Infrastructure network?

- A. Intrusion Prevention
- B. Intrusion Detection
- C. Default Denial Network
- D. Default Inter-EPG connectivity

Correct Answer: D

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 statement about data center access layer design modes is correct?

- A. The access layer is the first oversubscription point in a data center design.
- B. The data center access layer provides the physical-level connections to the server resources and only operates at Layer 3.
- C. When using a Layer 2 looped design, VLANs are not extended into the aggregation layer.
- D. When using a Layer 3 design, stateful services requiring Layer 2 connectivity are provisioned from the aggregation layer.

Correct Answer: A

QUESTION 11

A network engineer must provide 40mb connections from the data center to the corporate office and two remote offices. What WAN connectivity option will outsource the routing in cooperation with the service provider?

- A. Ethernet Private Line
- B. Ethernet Multipoint Service
- C. MPLS VPN
- D. VPLS

Correct Answer: C

QUESTION 12

DRAG DROP

Select and Place:

Click and drag the command on the left to the associated task on the right.	5 hosts required
10.3.3.0/26	12 hosts required
10.3.3.64/25	32 hosts required
10.3.3.16/27	18 hosts required
10.3.3.64/27	
10.3.3.8/28	
10.3.3.96/28	
10.3.3.112/29	



Correct Answer:

Click and drag the command on the left to the associated task on the right.	
	10.3.3.112/29
	10.3.3.96/28
10.3.3.64/25	10.3.3.0/26
10.3.3.16/27	10.3.3.64/27
10.3.3.8/28	



QUESTION 13

Which two of these are characteristics of multicast routing? (Choose two.)

- A. multicast routing uses RPF.
- B. multicast routing is connectionless.
- C. In multicast routing, the source of a packet is known.
- D. When network topologies change, multicast distribution trees are not rebuilt, but use the original path
- E. Multicast routing is much like unicast routing, with the only difference being that it has a group of receivers rather than just one destination

Correct Answer: AC

QUESTION 14

Which two protocols are used for high availability in enterprise networks? (Choose two.)

- A. BGP
- B. GLBP
- C. RSTP
- D. VRRP
- E. OSPF

Correct Answer: BD

QUESTION 15

When designing layer 2 STP based LAN with FHRP, what design recommendation should be followed?

- A. Assign STP root with active FHRP device
- B. Assign native VLAN to lowest number in use
- C. Avoid configuring router preempt
- D. Avoid modifying STP and FHRP default timers

Correct Answer: A

QUESTION 16

Which two BGP attributes can be set with outbound policy to manipulate inbound traffic, if honored by the remote Autonomous system? (Choose two)

- A. Multi-exit discriminator (MED)
- B. AS path
- C. Local Preference
- D. Weight

Correct Answer: AB

QUESTION 17

Which STP feature allows an access port to bypass the learning and listening?

- A. Port Fast
- B. BPDU Guard

C. BPDU Filter

D. UplinkFast

Correct Answer: A

QUESTION 18

Which NAC design model matches the following definitions?

-NAS is deployed centrally in the core or distribution layer.

-Users are multiple hops away from the Cisco NAS.

- After authentication and posture assessment, the client traffic no longer passes through the Cisco NAS.

-

PBR is needed to direct the user traffic appropriately.

A.

Layer 3 in-band virtual gateway

B.

Layer 3 out-of-band with addressing

C.

Layer 2 in-band virtual gateway

D.

Layer 2 out-of-band virtual gateway

Correct Answer: B

https://www.cisco.com/c/en/us/products/collateral/security/nac-appliance-clean-access/product_data_sheet0900aecd802da1b5.html Passing traffic mode

Virtual gateway (bridged mode)

Real IP gateway (routed mode)

Client access mode

Layer 2 (client is adjacent to the Cisco NAC Server)

Layer 3 (client is multiple hops from the Cisco NAC Server)

Traffic flow model

In-band (Cisco NAC Server is always in-line with user traffic)

Out-of-band (Cisco NAC Server is in-line only during authentication, posture assessment, and remediation)

QUESTION 19

Web server placed in front of the firewall in ACI?

- A. Application profile
- B. L4-L7 services

Correct Answer: B

QUESTION 20

An engineer notices that many BGP peers utilize the same configuration parameters. What can the engineer configure to simplify BGP neighbor statements and generate more efficient BGP peer updates?

- A. peer groups
- B. policy templates
- C. session templates
- D. peer address families

Correct Answer: A

QUESTION 21

Which of the following EIGRP configuration recommendation in layer 3-access switch?

- A. Static route...
- B. EIGRP stub...

Correct Answer: B

QUESTION 22

What is an advantage of using the Virtual Device Contexts feature in a data center environment?

- A. The same VLAN cannot be configured in separate Virtual Device Contexts.
- B. This feature provides fault domain separation.
- C. Supervisor modules are shared between Virtual Device Contexts.
- D. Fabric modules are shared between Virtual Device Contexts.

Correct Answer: B

QUESTION 23

When considering the design of the E-Commerce topology which of the following are true?

- A. One-armed SLB design with multiple security contexts removes the need for a separate firewall in the core layer
- B. Two-firewall-layer SLB design considers the aggregation and access layers to be trusted zones, requiring no security between the web, application, and database zones
- C. One-armed SLB design with two firewall layers ensures that non load-balanced traffic still traverses the ACE so that the health and performance of the servers is still being monitored
- D. In all cases there will be configuration requirements for direct access to any servers or for nonload-balanced sessions initiated by the servers

Correct Answer: A

QUESTION 24

Which of the following is true concerning best design practices at the switched Access layer of the traditional layer2 Enterprise Campus Network?

- A. Cisco NSF with SSO and redundant supervisors has the most impact on the campus in the Access layer
- B. Provide host-level redundancy by connecting each end device to 2 separate Access switches
- C. Offer default gateway redundancy by using dual connections from Access switches to redundant Distribution layer switches using a FHRP
- D. Include a link between two Access switches to support summarization of routing information from the Access to the Distribution layer

Correct Answer: A

QUESTION 25

Company has asked for an OOB management network design.

Which option is one Cisco best practice parameter that must be followed?

- A. Data networks must be limited to SSH, NTP, FTP, SNMP and TaCACS+ protocols
- B. Data networks must never traverse the management network
- C. Data networks and management networks must be in the routing table
- D. Data networks must traverse the management network as a backup path

Correct Answer: B

QUESTION 26

Which two options are characteristics of bidirectional PIM? (Choose two)

- A. A registration process is required
- B. It is ideal for many-to-many host applications
- C. The creation of a source tree is required
- D. A designated forwarder is not required
- E. It enables scalability with a large number of sources

Correct Answer: BE

QUESTION 27

Which four Cisco proprietary Spanning Tree Protocol enhancements are supported with rapid per- VLAN Spanning-Tree plus? (Choose four.)

- A. PortFast
- B. UplinkFast
- C. loop guard
- D. root guard
- E. BPDU guard
- F. BackboneFast

Correct Answer: ACDE

QUESTION 28

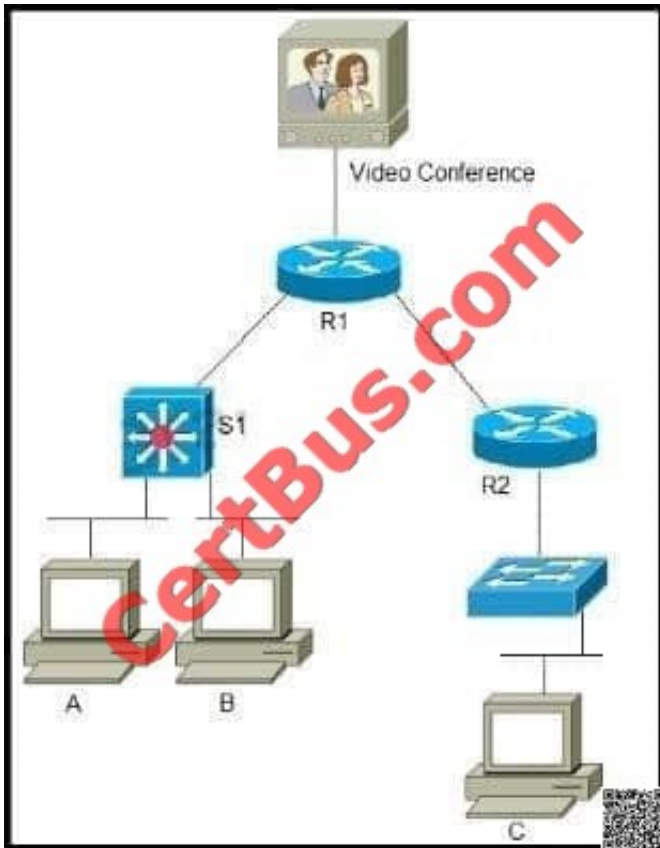
OTV to interconnect three data centers and what should there be in each data center

- A. VTEP
- B. vxlan ?

Correct Answer: A

QUESTION 29

Refer to the exhibit. The network engineer wants to ensure that receiver A does not receive traffic from the video conference.



For multicast traffic, where must the filtering be placed to fulfill that requirement?

- A. R1
- B. Video Conference
- C. A
- D. S1
- E. R2

Correct Answer: D

QUESTION 30

What is the maximum number of routers that each OSPF area (including the backbone) should contain?

- A. 30
- B. 10
- C. 50

D. 100

Correct Answer: C

QUESTION 31

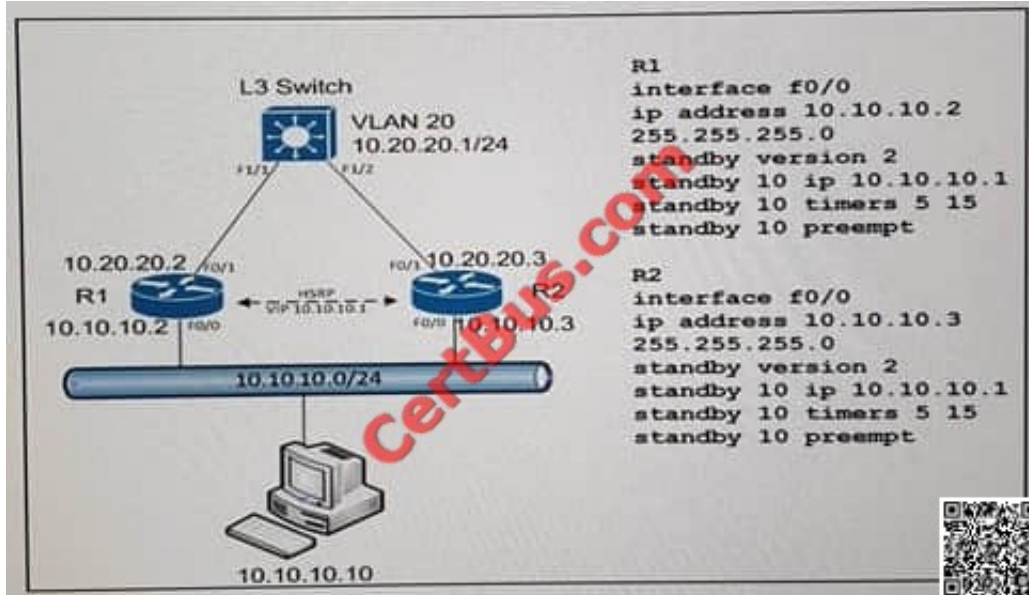
Which desing tecnology allows two cisco catalyst chassis to use SSO and NSF to provide nonstop communication even if one of the member chasis fails?

- A. Auto chassis detect
- B. VSS
- C. VPC
- D. Peer Gateway

Correct Answer: A

QUESTION 32

Refer to the exhibit. A customer discovers router R1 remains active even when R1 uplink (F0/1) is down. Which two commands can be applied to R1 to allow R2 to take over as the HSRP active? (Choose two.)



- A. Standby 10 track 50
- B. Standby 10 track 50 decrement 20
- C. Track 50 ip route 10.10.10.0/24 reachability
- D. Standby 10 track 50 shutdown
- E. Track 50 interface Fa0/1 ip routing

Correct Answer: BE

QUESTION 33

Which VPN connectivity representing both Hub-and-Spokes and Spokes-to-Spokes?

- A. DMVPN
- B. IPSec VPN
- C. VPN Router
- D. VPN hub

Correct Answer: A

QUESTION 34

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.

Correct Answer: B

QUESTION 35

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 36

Two Cisco switches with 1 SUP and many 10G line-card ports for each switch, run in VSS mode. In which case or for what reason you don't connect all VSL to SUP?

- A. The need for hardware diversity
- B. Bandwidth congestion at SUP
- C. In case the sup fail
- D. Qos must be configured on both

Correct Answer: A

QUESTION 37

Which protocol should be configured if a network administrator has the following requirements?

-

Multiple physical gateways participating simultaneously in packet forwarding.

-

All hosts in the VLAN configured with the same default gateway address.

- A.
HSRP
- B.
VRRP
- C.
VTP
- D.
GLBP

Correct Answer: D

QUESTION 38

An organization is designing the IP allocation of a new site. It currently has 12 separate IP segments. Each segment must be /24, accommodate 25% of growth, and be easily summarized. Which summarized IP block can be subnetted to meet these requirements?

- A. /18

B. /19

C. /20

D. /21

Correct Answer: C

QUESTION 39

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 40

A network engineer must perform posture assessments on Cisco ASA remote access VPN clients and control their network access based on the results. What mode is the Cisco best practice NAC deployment design for this situation?

A. Layer 2 in-band real IP gateway mode

B. Layer 2 out-of-band real IP gateway mode

C. Layer 3 in-band virtual gateway mode

D. Layer 3 out-of-band virtual gateway mode

Correct Answer: C

[300-320 PDF Dumps](#)

[300-320 Practice Test](#)

[300-320 Study Guide](#)

To Read the [Whole Q&As](#), please purchase the [Complete Version](#) from [Our website](#).

Try our product !

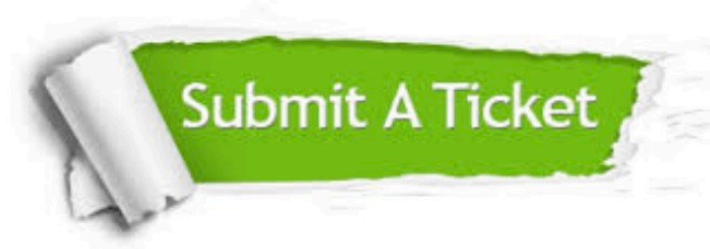
100% Guaranteed Success
100% Money Back Guarantee
365 Days Free Update
Instant Download After Purchase
24x7 Customer Support
Average 99.9% Success Rate
More than 800,000 Satisfied Customers Worldwide
Multi-Platform capabilities - [Windows](#), [Mac](#), [Android](#), [iPhone](#), [iPod](#), [iPad](#), [Kindle](#)

We provide exam PDF and VCE of Cisco, Microsoft, IBM, CompTIA, Oracle and other IT Certifications.
You can view Vendor list of All Certification Exams offered:

<https://www.certbus.com/allproducts>

Need Help

Please provide as much detail as possible so we can best assist you.
To update a previously submitted ticket:



 <p>One Year Free Update Free update is available within One Year after your purchase. After One Year, you will get 50% discounts for updating. And we are proud to boast a 24/7 efficient Customer Support system via Email.</p>	 <p>Money Back Guarantee To ensure that you are spending on quality products, we provide 100% money back guarantee for 30 days from the date of purchase.</p>	 <p>Security & Privacy We respect customer privacy. We use McAfee's security service to provide you with utmost security for your personal information & peace of mind.</p>
---	---	--

Any charges made through this site will appear as Global Simulators Limited.
All trademarks are the property of their respective owners.
Copyright © certbus, All Rights Reserved.