

Cisco.Premium.400-007.30q - DEMO.vce

Number: 400-007 Passing Score: 800 Time Limit: 120 min

Exam Code: 400-007

Exam Name: Cisco Certified Design Expert CCDE v3.0

Website: https://VCEup.com/
Team-Support: https://VCEplus.io/







Exam A

QUESTION 1

An enterprise that runs numerous proprietary applications has major issues with its on-premises server estate hardware, to the point where business-critical functions are compromised. The enterprise accelerates plans to migrate services to the cloud. Which cloud service should be used if the enterprise wants to avoid hardware issues yet have control of its applications and operating system?

A. SaaS

B. PaaS

C. laaS

D. hybrid cloud

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 2

Which two features control multicast traffic in a VLAN environment? (Choose two)

A. IGMP snooping

B. MLD snooping

C. RGMP

D. PIM snooping

E. pruning

Correct Answer: AB Section: (none) Explanation

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Explanation/Reference:

Explanation:

QUESTION 3

Company XYZ wants to secure the data plane of their network. Which two technologies can be included in the security design? (Choose two)

A. DAI

B. IP Source Guard

C. BEEP

D. CPPr

E. MPP

Correct Answer: AB Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 4

Company XYZ has a new network based on IPv6. Some of the subnets that they are planning to use will be confidential and need an addressing scheme that confines them to the local campus network. Which type of IPv6 addresses can be used for these networks in the IPv6 addressing design?

A. local addresses

B. private addresses

C. link-local addresses

D. unique local addresses





Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 5

An architect receives a business requirement from a CTO that states the RTO and RPO for a new system should be as close as possible to zero. Which replication method and data center technology should be used?

- A. asynchronous replication over dual data centers via DWDM
- B. synchronous replication over geographically dispersed dual data centers via MPLS
- C. synchronous replication over dual data centers via Metro Ethernet
- D. asynchronous replication over geographically dispersed dual data centers via CWDM

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 6

Which two data plane hardening techniques are true? (Choose two)

- A. warning banners
- B. redundant AAA servers
- C. Control Plane Policing
- D. SNMPv3
- E. infrastructure ACLs
- F. disable unused services
- G. routing protocol authentication

Correct Answer: EF Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 7

You have been asked to design a high-density wireless network for a university campus. Which two principles would you apply in order to maximize the wireless network capacity? (Choose two.)

- A. Implement a four-channel design on 2.4 GHz to increase the number of available channels
- B. Choose a high minimum data rate to reduce the duty cycle.
- C. increases the number of SSIDs to load-balance the client traffic.
- D. Make use of the 5-GHz band to reduce the spectrum utilization on 2.4 GHz when dual-band clients are used.
- E. Enable 802.11n channel bonding on both 2.4 GHz and 5 GHz to increase the maximum aggregated cell throughput.

Correct Answer: BD Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 8

Company XYZ is redesigning their QoS policy. Some of the applications used by the company are realtime applications. The QoS design must give these applications preference in terms of transmission. Which QoS strategy can be used to fulfill the requirement?







A. weighted fair queuing

B. weighted random early detection

C. low-latency queuing

D. first-in first-out

Correct Answer: C Section: (none) **Explanation**

Explanation/Reference:

Explanation:

QUESTION 9

As part of workspace digitization, a large enterprise has migrated all their users to Desktop as a Sen/ice (DaaS), by hosting the backend system in their on-premises data center. Some of the branches have started to experience disconnections to the DaaS at periodic intervals, however, local users in the data center and head office do not experience this behavior. Which technology can be used to mitigate this issue?

A. tail drop

B. traffic shaping

C. WRED

D. traffic policing

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:

QUESTION 10

Refer to the exhibit.



The enterprise customer wants to stream one-way video from their head office to eight branch offices using multicast. Their current service provides a Layer3 VPN solution and manages the CE routers, but they do not currently support multicast. Which solution quickly allows this multicast traffic to go through while allowing for future scalability?

A. Enable a GRE tunnel between nodes CE1 and CE2

B. Enable a GRE tunnel between nodes C2 and C4

C. Enable a GRE tunnel between nodes C1 and C4

D. Implement hub and spoke MPLS VPN over DMVPN (also known as 25470 DMVPN) between CE1 and CE2

E. The service provider must provide a Draft Rosen solution to enable a GRE tunnel between nodes PE1 and PE2

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:

QUESTION 11

An enterprise network has two core routers that connect to 200 distribution routers and uses fullmesh IBGP peering between these routers as its routing method. The distribution routers are experiencing high CPU utilization due to the BGP process. Which design solution is the most cost effective?





- A. Implement route reflectors on the two core routers
- B. Increase the memory on the core routers
- C. Implement e BGP between the core and distribution routers
- D. Increase the memory on the distribution routers
- E. Increase bandwidth between the core routers

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 12

You want to mitigate failures that are caused by STP loops that occur before UDLD detects the failure or that are caused by a device that is no longer sending BPDUs. Which mechanism do you use along with UDLD?

- A. Root guard
- B. BPDU guard
- C. Loop guard
- D. BPDU filtering

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 13

A multicast network is sing Bidirectional PIM. Which two combined actions achieve high availability so that two RPs within the same network can act in a redundant manner? (Choose two)

- A. Use two phantom RP addresses
- B. Manipulate the administration distance of the unicast routes to the two RPs
- C. Manipulate the multicast routing table by creating static mroutes to the two RPs
- D. Advertise the two RP addresses in the routing protocol
- E. Use anycast RP based on MSDP peering between the two RPs
- F. Control routing to the two RPs through a longest match prefix

Correct Answer: AF Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 14

Which purpose of a dynamically created tunnel interface on the design of IPv6 multicast services Is true?

- A. first-hop router registration to the RP
- B. multicast client registration to the RP
- C. multicast source registration to the RP
- D. transport of all IPv6 multicast traffic

Correct Answer: D Section: (none) Explanation

Explanation/Reference:



Explanation:

QUESTION 15

Refer to the exhibit.



ACME Mining has four data centers in Santiago. Cape Town. Mumbai, and Beijing, full-mesh connected via a 400 Mb/s EVP-LAN They want to deploy a new mission-critical application with these requirements: cluster heartbeat 2 Mb/s continuous (250 KB/s)

cluster heartbeat one-way maximum latency 100 ms

These are the current ping tests results between the four data centers:

A STORY	Santiago	Cape Town	Mumbai	Beijing
Santiago	-100	280 ms	378 ms	409 ms
Cape Town	280 ms	-60 54	185 ms	445 ms
Mumbai	383 ms	176 ms	10	443 ms
Beijing	430 ms	448 ms	442 ms	920

Which hosting data center pair can host the new application?

- A. Mumbai and Beijing
- B. Santiago and Cape Town
- C. Santiago and Mumbai
- D. Cape Town and Mumbai
- E. Cape Town and Beijing
- F. Santiago and Beijing

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 16

How can EIGRP topologies be designed to converge as fast as possible in the event of a point-topoint link failure?

- A. Limit the query domain by use of distribute lists.
- B. Build neighbor adjacencies in a triangulated fashion.
- C. Build neighbor adjacencies in squared fashion.
- D. Limit the query domain by use of summarization.
- E. Limit the query domain by use of default routes.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 17

Which effect of using ingress filtering to prevent spoofed addresses on a network design is true?

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A. It reduces the effectiveness of DDoS attacks when associated with DSCP remarking to Scavenger.

B. It protects the network Infrastructure against spoofed DDoS attacks.

C. It Classifies bogon traffic and remarks it with DSCP bulk.

D. It filters RFC 1918 IP addresses.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 18

Which relationship between IBGP and the underlying physical topology is true?

A. iBGP full mesh requirement does not dictate any specific network topology.

B. iBGP can worn only on a ring network topology with a link-state protocol like OSPF or IS-IS

C. iBGP full mesh requires an underlying fully meshed network topology.

D. iBGP does not work on a ring network topology even with an underlying IGP.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 19

How many fully established neighbour relationships exist on an Ethernet with five routers running OSPF as network type broadcast?

A. 5

B. 6

C. 7

D. 10 E. 20

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 20

Refer to the exhibit.



Traffic was equally balanced between Layer 3 links on core switches SW1 and SW2 before an introduction of the new video server in the network. This video server uses multicast to send video streams to hosts and now one of the links





between core switches is over utilized Which design solution solves this issue?

- A. Add more links between core switches.
- B. Aggregate links Layer 2 link aggregation.
- C. Apply a more granular load-balancing method on SW1.
- D. Apply a more granular load-balancing method on SW2.
- E. Filter IGMP joins on an over -utilized link.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 21

How must the queue sizes be designed to ensure that an application functions correctly?

- A. Each individual device queuing delay in the chain must be less than or equal to the application required delay.
- B. The queuing delay on every device in the chain must be exactly the same to the application required delay.
- C. The default queue sizes are good for any deployment as it compensates the serialization delay.
- D. The sum of the queuing delay of all devices plus serialization delay in the chain must be less than or equal to the application required delay.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 22

Which two mechanisms avoid suboptimal routing in a network with dynamic mutual redistribution between multiple OSPFv2 and EIGRP boundaries? (Choose two.)

- A. AD manipulation
- B. matching OSPF external routes
- C. route tagging
- D. route tagging
- E. route filtering
- F. matching EIGRP process ID

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 23

Which Interconnectivity method offers the fastest convergence in the event of a unidirectional issue between three Layer 3 switches connected together with routed links in the same rack in a data center?

- A. Copper Ethernet connectivity with BFD enabled
- B. Copper Ethernet connectivity with UDLD enabled
- C. Fiber Ethernet connectivity with BFD enabled
- D. Fiber Ethernet connectivity with UDLD enabled

Correct Answer: C Section: (none) Explanation





Explanation/Reference:

Explanation:

OUESTION 24

Which two actions ensure voice quality in a branch location with a low-speed, high-latency WAN connection? (Choose two.)

- A. Increase WAN bandwidth
- B. Increase memory branch switch.
- C. Fragment data packets.
- D. Replace any electrical links with optical links
- E. Prioritize voice packets

Correct Answer: CE Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 25

Which function is performed at the access layer of the three-layer hierarchical network design model?

- A. fault isolation
- B. QoS classification and marking boundary
- C. reliability -
- D. fast transport
- E. redundancy and load balancing

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

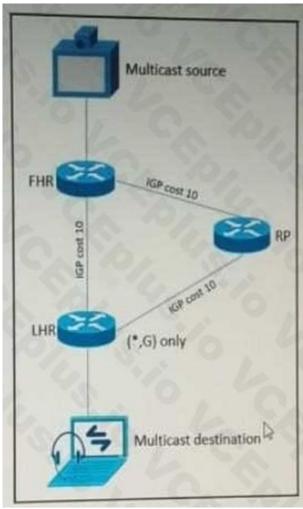
QUESTION 26

Refer to the exhibit.

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As part of a redesign project, you must predict multicast behavior What happens to the multicast traffic received on the shared tree (*,G), if it is received on the LHR interface indicated*?

- A. It is dropped due to an unsuccessful RPF check against the multicast source
- B. It is switched give that no RPF check is performed
- C. It is switched due to a successful RPF check against the routing table
- D. It is dropped due to an unsuccessful RPk8t8ck against the multicast receiver.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 27

A BGP route reflector in the network is taking longer than expected to coverage during large network changes. Troubleshooting shows that the router cannot handle all the TCP acknowledgements during route updates. Which action can be performed to tune the device performance?

- A. Increase the size of the hold queue.
- B. Increase the size of the large buffers.
- C. Decrease the size of the small buffers.
- D. Increase the keepalive timers for each BGP neighbor.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:



Explanation:

QUESTION 28

Which two application requirements are mandatory tor traffic to receive proper treatment when placed in the priority queue? (Choose two.)

A. small transactions (HTTP-like behavior)

B. WRED drop treatment

C. tolerance to packet loss

D. intolerance to jitter

E. TCP-based application

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

Explanation:

QUESTION 29

Which two conditions must be met for EIGRP to maintain an alternate loop-free path to a remote network? (Choose two.)

- A. The Reported Distance from a successor is lower than the local Feasible Distance.
- B. The Reported Distance from a successor is higher than the local Feasible Distance.
- C. The feasibility condition does not need to be met.
- D. The Feasible Distance from a successor is lower than the local Reported Distance.
- E. A feasible successor must be present.

Correct Answer: AE Section: (none) Explanation

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Explanation/Reference:

Explanation:

QUESTION 30

Company XYZ has a hub-and-spoke topology over an SP-managed infrastructure. To measure traffic performance metrics, they implemented IP SLA senders on all spoke CE routers and an IP SLA responder on the hub CE router. What must they monitor to have visibility on the potential performance impact due to the constantly increasing number of spoke sites?

A. CPU and memory usage on the spoke routers

B. memory usage on the hub router

C. CPU usage on the hub router

D. interface buffers on the hub and spoke routers

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation: