



Cisco

Exam Questions 300-101

ROUTE Implementing Cisco IP
Routing

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QUESTION 1

A network engineer replaced a bad router with a spare, used router in an OSPF network. After the replacement, OSPF neighborship is not being established on one of the interfaces. Which two reasons cause this issue? (Choose two)

- A. authentication mismatch 0 MTU mismatch
- B. OSPF process numbers do not match on both neighbor routers.
- C. OSPF timers match
- D. area numbers match

Correct Answer: BC

QUESTION 2

Which three methods can a network engineer use to fix a metric based routing loop in the network.(choose three)

- A. Implement offset lists at network boundaries
- B. Filter routes manually using distribute lists
- C. Filter routes manually using prefix lists
- D. Implement proper network summarisation on key routing points
- E. Filter routes based on tags
- F. Utilise root database filters

Correct Answer: ABE

QUESTION 3

Under which circumstance can TCP starvation occur?

- A. when DNS and TFTP traffic are transmitted on the same link
- B. when TCP traffic is blocked by an ACL
- C. when UDP traffic is processed in a policy-map before TCP traffic
- D. when Http and Https traffic are transmitted on the same link
- E. when TCP and UDP traffic are mixed in the same class of service

Correct Answer: E

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QUESTION 4

Under which condition does UDP dominance occur?

- A. when TCP traffic is in the same class as UDP
- B. when UDP flows are assigned a lower priority queue
- C. when WRED is enabled
- D. when ACLs are in place to block TCP traffic

Correct Answer: A

Mixing TCP with UDP It is a general best practice to not mix TCP-based traffic with UDP-based traffic



(especially

Streaming- Video) within a single service-provider class because of the behaviors of these protocols during periods of

congestion. Specifically, TCP transmitters throttle back flows when drops are detected. Although some UDP

applications have application-level windowing, flow control, and retransmission capabilities, most UDP transmitters are

completely oblivious to drops and, thus, never lower transmission rates because of dropping. When TCP flows are

combined with UDP flows within a single service-provider class and the class experiences congestion, TCP flows

continually lower their transmission rates, potentially giving up their bandwidth to UDP flows that are oblivious to drops.

This effect is called TCP starvation/UDP dominance. TCP starvation/UDP dominance likely occurs if (TCPbased) Mission-Critical Data is assigned to the same service-provider class as (UDP-based) Streaming-Video and the class

experiences sustained congestion. Even if WRED is enabled on the service-provider class, the same behavior would be

observed because WRED (for the most part) manages congestion only on TCP-based flows. Reference:

http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/WAN_and_MAN/QoS_SRND/QoSSRNDBook/VPNQoS.html

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QUESTION 5

Which two statements are examples of the differences between IPv4 and IPv6 EIGRP? (Choose two.)

- A. Network command is used in IPv6
- B. DUAL is not used for route calculations.
- C. DUAL is used for route calculations
- D. IPv6 keyword is used in many EIGRP commands.
- E. Network command is not used in IPv6

Correct Answer: DE

QUESTION 6

Which two commands do you need to implement on a router to support the pppoe client? (Choose Two)

- A. peer default ipaddress pool
- B. mtu
- C. bba-group pppoe

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- D. pppoe enable group
- E. pppoe-clientdialer-pool-number

Correct Answer: BE

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