



EXAMWEAPONS Q&A Demo

Cisco 642-642

Cisco® Quality of Service (QoS)

1. What is the purpose of the qos pre-classify command?

- A. to enable the IOS to copy the ToS field from the original IP header to the outer tunnel IP header
- B. to enable the IOS to copy the ToS field from the outer tunnel IP header back into the original IP header
- C. to enable the IOS to classify the packet based on the original IP header instead of the tunnel IP header
- D. to enable the IOS to classify the packet based on the outer tunnel IP header instead of the original IP header
- E. to enable class-based marking on tunnel interface
- F. to enable class-based marking on IPSec crypto maps

Answer: C

2. What are two benefits of WFQ? (Choose two.)

- A. WFQ is very easy to configure, and no manual traffic classification is necessary.
- B. WFQ can provide fixed-bandwidth and fixed-delay guarantees.
- C. WFQ can provide fixed-bandwidth guarantees.
- D. WFQ can provide fixed-delay guarantees.
- E. WFQ prevents the large-volume flows with large packet size from starving out the low-volume flows with small packet size.
- F. Based on DSCP, WFQ allows weighted, random dropping of packets when the WFQ system is full.

Answer: AE

3. Based on the configuration, which two of the following statements are true? (Choose two.)

```
policy-map police1
  class bulk-ftp
    police cir percent 20 pir percent 40
    conform-action set-dscp-transmit af11
    exceed-action set-dscp-transmit 0
    violate-action drop
```

- A. This configuration will use a single token bucket.
- B. This configuration will drop all exceeding traffic.
- C. This is a dual-rate, class-based policing example.
- D. This is a percentage-based policing example.
- E. This is a multi-action, class-based policing example.

Answer: CD

4. Based on the configuration, which two statements are true? (Choose two.)

```
policy-map shape-cbwfq
class interactive
  shape average 256000
  shape adaptive 128000
  bandwidth 128
```

- A. The interactive traffic class will have a minimum bandwidth guarantee of 256 kbps.
- B. The interactive traffic class will have a maximum bandwidth guarantee of 256 kbps.
- C. If the interactive traffic class exceeds an average rate of 256 kbps, the traffic rate will be throttled down to 128 kbps.
- D. This configuration allows class-based traffic shaping to lower the traffic rate in response to the BECN bit.
- E. The interactive traffic class will have a min-rate (min-cir) of 128 kbps.

Answer: DE

5.Which technology is required when configuring FRF.12 on a Cisco device?

- A. FRF11.c
- B. FRF.8
- C. VoFR
- D. MLP with interleaving
- E. FRTS
- F. WRED

Answer: E

6.What are three methods of reducing delay for critical applications in a converged network?

(Choose three.)

- A. Apply payload compression.
- B. Increase link capacities.
- C. Apply header compression.
- D. Increase LFI fragment size.
- E. Reduce inter-packet gaps.
- F. Increase all queue depths.

Answer: ABC

7.At the network layer, IP packets are typically classified based on which three items? (Choose three.)

- A. packet length
- B. VLAN Identifier
- C. flow control bits
- D. source and destination IP addresses

E. content of the ToS byte

Answer: ADE

8. What are three reasons link efficiency mechanisms are deployed on WAN links? (Choose three.)

A. decrease delay

B. decrease jitter

C. increase link speed

D. increase throughput

E. decrease propagation delay

Answer: ABD

9. Which mechanism is used for the prioritizing, protection, and isolation of traffic based on marking?

A. classification and marking

B. congestion management

C. congestion avoidance

D. metering

E. policing

F. shaping

Answer: B

10. For which service is assured forwarding PHB used?

A. best effort

B. expedited forwarding

C. guaranteed bandwidth

D. class selector

Answer: C

11. Which three factors will affect processing delay? (Choose three.)

A. CPU speed

B. router architecture

C. queuing mechanism

D. type of media

E. IP switching method

F. distance of media

Answer: ABE

12. Which four of the following bit values are used for bits 5-7 of the DSCP field to select AF PHB?

(Choose four.)

- A. 000
- B. 001
- C. 010
- D. 011
- E. 100
- F. 101

Answer: BCDE

13. Based on the following 2950 switch configurations, which statement is correct?

```
no wrr-queue cos-map  
wrr-queue bandwidth 20 10 70 1  
wrr-queue cos-map 4 5  
wrr-queue cos-map 1 0 1 2 3  
wrr-queue cos-map 3 6 7
```

- A. Queue 1 is setup as the expedite queue.
- B. Queue 2 is setup as the expedite queue.
- C. Queue 3 is setup as the expedite queue.
- D. Queue 4 is setup as the expedite queue.
- E. No queue is setup as the expedite queue.

Answer: E

14. When LLQ is being configured, which IOS command is used to limit the traffic rate on the priority queue even when the other class queues are not congested?

- A. priority
- B. bandwidth
- C. queue-limit
- D. police
- E. hold-queue

Answer: D

15. Which two of the following statements about CBWFQ are correct? (Choose two.)

- A. The CBWFQ scheduler provides a guaranteed amount of minimum bandwidth to each class.
- B. CBWFQ services each class queue using a strict priority scheduler.
- C. The class-default queue only supports WFQ.
- D. Each CBWFQ traffic class is policed using a congestion aware policer.

E. Inside a class queue, processing is always FIFO, except for the class-default queue.

Answer: AE

16. Which of the following configurations requires the use of hierarchical policy maps?

- A. the use of class-based WRED within a CBWFQ class queue
- B. the use of a strict priority-class queue within CBWFQ
- C. the use of CBWFQ inside class-based shaping
- D. the use of nested class-maps with class-based marking
- E. the use of both the bandwidth and shape statements within a CBWFQ class queue

Answer: C

17. Which QoS mechanism adds IP Precedence information for prefixes into the FIB table?

- A. QoS pre-classify
- B. AutoQoS
- C. QPPB
- D. Class-Based Marking
- E. LLQ
- F. Class-Based WRED

Answer: C

18. In a typical converged campus network, which two of the following are considered QoS best practices? (Choose two.)

- A. Traffic classification and marking is performed as close to the traffic source as possible.
- B. Traffic classification and marking is performed at the high speed core layer.
- C. Ensure voice traffic is serviced by a weighted fair queue.
- D. Only a reasonable number of applications should be classified into the mission-critical traffic class.
- E. NBAR is used at the high speed core layer to discover and classify network applications.
- F. Catalyst switches should use weighted round robin (WRR) queuing giving the voice traffic the highest priority.

Answer: AD

19. Which three characteristics are drawbacks to the use of a best-effort with over-provisioning backbone design? (Choose three.)

- A. The design costs more to implement than a DiffServ backbone.
- B. Denial of Service attacks on one service can affect all network traffic.
- C. The design uses a different over-provisioning ratio for the different traffic classes.
- D. It requires complex QoS mechanisms at the network edge.

E. It requires complex QoS mechanisms at the network core.

F. Unplanned network failures can cause unexpected congestion in the network.

Answer: ABF

20. Which two different traffic types have the most similar sensitivity to latency, jitter, and packet loss? (Choose two.)

A. SQL transactions

B. voice

C. voice signaling

D. streaming video

E. video conferencing

F. peer-to-peer file sharing

Answer: BE