

Cisco 642-845 Exam

642-845: Optimizing Converged Cisco Networks

Practice Exam: 642-845 Exams

Exam Number/Code: 642-845

Exam Name: Optimizing Converged Cisco Networks

Questions and Answers: 176 Q&As

(CCNP)



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1. Which codec standard would provide the highest voice-quality, mean opinion score (MOS)?

- A. G.711, PCM
- B. G.728, LDCELP
- C. G.729, CS-ACELP
- D. G.729A, CS-ACELP

Answer: A

2. Which two wireless security statements are true? (Choose two.)

- A. A TACACS+ server is required to implement 802.1x.
- B. MIC protects against man-in-the-middle and replay attacks.
- C. The 802.1x standard provides encryption services for wireless clients.
- D. The AES (symmetric block cipher) is specified in the IEEE 802.11i specification.
- E. The IEEE 802.11i specification uses RC4 as its encryption mechanism.
- F. WPA requires TKIP and AES as encryption methods.

Answer: BD

3. What are the steps for configuring stateful NBAR for dynamic protocols?

- A. Use the command `ip nbar protocol-discovery` to allow identification of stateful protocols. Use the command `ip nbar port-map` to attach the protocols to an interface.
- B. Use the command `match protocol rtp` to allow identification of real-time audio and video traffic. Use the command `ip nbar port-map` to extend the NBAR functionality for well-known protocols to new port numbers.
- C. Use the command `match protocol` to allow identification of stateful protocols. Use the command `ip nbar port-map` to attach the protocols to an interface.
- D. Configure a traffic class. Configure a traffic policy. Attach the traffic policy to an interface.
- E. Configure video streaming. Configure audio streaming. Attach the codec to an interface.

Answer: D

4. Which three configuration tasks are required to successfully deploy NBAR to recognize TCP and UDP stateful protocols? (Choose three.)

- A. Over leased lines, use the `multilink ppp` command to reduce latency and jitter, and to create Distributed Link Fragmentation and interleaving.
- B. Use the `service-policy` command to attach a traffic flow to an interface on the router.
- C. Use the `ip RSVP bandwidth` command to set a strict upper limit on the bandwidth NBAR uses, and to guarantee admission of any flows.
- D. Use the `policy-map` command to define one or more QoS policies (such as shaping, policing, and so on) to apply to traffic defined by a class map.
- E. Use the `random-detect dscp` command to modify the default minimum and maximum thresholds for the DSCP value.
- F. Use the `class-map` command to define one or more traffic classes by specifying the criteria by which traffic is classified.

Answer: BDF

5. Which two QoS statements are true about the use of the SDM QoS wizard? (Choose two.)

- A. Business-critical traffic includes VoIP and voice signaling packets.
- B. SDM can be used to configure a basic QoS policy for incoming traffic on WAN interfaces and IPsec tunnels.
- C. SDM can provide QoS for real-time traffic and business-critical traffic.
- D. SDM creates a custom-queuing (CQ) or a priority-queuing (PQ) policy.
- E. SDM creates a low latency queuing (LLQ) service policy with its associated classes.
- F. When allocating bandwidth, values can be entered in either bandwidth percentage or kilobytes per second (kBps).

Answer: CE

6. Voice activity detection (VAD) suppresses the transmission of silence patterns. On average, and assuming that a link carries at least 24 calls, what percentage of total bandwidth could VAD save?

- A. 5
- B. 15
- C. 25
- D. 35
- E. 45
- F. 55

Answer: D

7. Which two Cisco AutoQoS interface statements are true? (Choose two.)
- A. AutoQoS is supported on Frame Relay multipoint subinterfaces.
 - B. AutoQoS is supported on low-speed ATM PVCs in point-to-point subinterfaces.
 - C. AutoQoS is supported on serial PPP and HDLC interfaces.
 - D. AutoQoS is supported only on Frame Relay main interfaces and not on any subinterface configuration.

Answer: BC

8. Which two statements are true about the implementation of QoS? (Choose two.)
- A. Implementing DiffServ involves the configuration of RSVP.
 - B. Implementing IntServ allows QoS to be performed by configuring only the ingress and egress devices.
 - C. Implementing IntServ involves the utilization of RSVP.
 - D. Traffic should be classified and marked by the core network devices.
 - E. Traffic should be classified and marked as close to the edge of the network as possible.

Answer: CE

9. Which two statements are true about the function of CAC? (Choose two.)
- A. CAC provides guaranteed voice quality on a link.
 - B. CAC artificially limits the number of concurrent voice calls.
 - C. CAC is used to control the amount of bandwidth that is taken by a call on a link.
 - D. CAC prevents oversubscription of WAN resources that is caused by too much voice traffic.
 - E. CAC allows an unlimited number of voice calls while severely restricting, if necessary, other forms of traffic.
 - F. CAC solves voice congestion problems by using QoS to give priority to UDP traffic.

Answer: BD

10. Which two statements regarding the Wireless LAN Solution Engine (WLSE) are true? (Choose two.)
- A. To support fault and policy reporting, the WLSE requires a Wireless Control System (WCS).
 - B. When WLSE detects an AP failure, it automatically increases the power and cell coverage of nearby APs.
 - C. WLSE requires the 2700 location appliance to offer location tracking.
 - D. WLSE can locate rogue APs and automatically shut them down.
 - E. WLSE configuration is done using the command line interface (CLI) or a WEB based template.

Answer: BD

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