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QUESTION 1

A network administrator must ensure that both the server and the client are authenticated to the wireless system before access is granted. Which of the following should be implemented to meet this requirement?

- A. EAP-PEAP
- B. MAC ACL
- C. EAP-TTLS
- D. MS-CHAPv2

Correct Answer: C

Extensible Authentication Protocol, or EAP, is an authentication framework frequently used in wireless networks and Point-to-Point connections. EAP is an authentication framework providing for the transport and usage of keying material and parameters generated by EAP methods.

QUESTION 2

All users on a specific network segment report losing access to the wired network. During troubleshooting, the network administrator observes link lights on the workstations. When physically reviewing each switch, the network administrator changes the switch view settings to Activity and sees that all port lights remain solid green. Which of the following is MOST likely causing this issue?

- A. STP convergence
- B. Power failure
- C. Excessive bandwidth usage
- D. Broadcast storm

Correct Answer: D

QUESTION 3

A network technician is designing a SOHO environment where cost is a consideration. The requirements include access to the Internet and access to the guest house which is 100 feet away. The location of the Internet modem is located in the main house. Which of the following is the BEST option to accomplish these requirements?

- A. Use two combined Internet/router/wireless devices, one in each house.
- B. Use a Layer 3 switch in the main house and a combined Internet/router/wireless device in the guest house.
- C. Use a combined Internet/router/wireless device in the main house and a wireless access point in the guest house.
- D. Use a single combined Internet/router/wireless device at the guest house.

Correct Answer: C



QUESTION 4

A network technician must allow use of HTTP from the internet to an internal resource running HTTP. This is an example of which of the following?

- A. Dynamic DNS
- B. Virtual Private networking (VPN)
- C. Dynamic NAT
- D. Port Forwarding

Correct Answer: D

QUESTION 5

An administrator has set up a NIPS and connected it to the same switch as the internal firewall interface and the internal router. The device, however, only detects traffic from itself to the firewall or router. Which of the following explains why additional corporate traffic cannot be detected?

- A. The spanning tree protocol is preventing the traffic.
- B. Port Mirroring is set up incorrectly.
- C. The switch needs to be a layer 3 switch.
- D. The traffic is in a classless IP range and not classful IP range.

Correct Answer: B

QUESTION 6

Which of the following Ethernet features will allow increased FCoE network throughput as long as all network devices recognize its specific size?

- A. Frame relay
- B. TCP offloading
- C. Jumbo frame
- D. Quality of service
- E. Equal cost multipath

Correct Answer: C

QUESTION 7



An administrator notices SMTP traffic is being blocked by the company firewall. Which of the following ports should be opened?

- A. 25
- B. 53
- C. 110
- D. 443

Correct Answer: A

Explanation: SMTP is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks. SMTP uses TCP port 25.

QUESTION 8

In the past, a company has experienced several network breaches as a result of end-user actions. To help mitigate future breaches, which of the following documents should the security team ensure are up-to-date and enforced for all employees? (Select TWO).

- A. Data classification document
- B. SLA
- C. Interconnection security agreement
- D. Consent to monitoring
- E. AUP

Correct Answer: BE

QUESTION 9

Which of the following helps prevent routing loops?

- A. Routing table
- B. Default gateway
- C. Route summarization
- D. Split horizon

Correct Answer: D

Routing loops occur when the routing tables on the routers are slow to update and a redundant communication cycle is created between routers. Split horizon, which prevents the router from advertising a route back to the other router from which it was learned, can be used to resist routing loops. Poison reverse, also known as split horizon with poison reverse, is also used to resist routing loops.



QUESTION 10

Which of the following WAN technology types are mainly used over POTS lines to provide Internet connectivity? (Select TWO).

- A. Dialup
- B. DSL
- C. SONET
- D. Cable
- E. WiMAX
- F. LTE

Correct Answer: AB

QUESTION 11

A technician, Joe, has been tasked with assigning two IP addresses to WAN interfaces on connected routers. In order to conserve address space, which of the following subnet masks should Joe use for this subnet?

- A. /24
- B. /32
- C. /28
- D. /29
- E. /30

Correct Answer: E

An IPv4 address consists of 32 bits. The first x number of bits in the address is the network address and the remaining bits are used for the host addresses. The subnet mask defines how many bits form the network address and from that, we

can calculate how many bits are used for the host addresses.

In this question, the /30 subnet mask dictates that the first 30 bits of the IP address are used for network addressing and the remaining 2 bits are used for host addressing. The formula to calculate the number of hosts in a subnet is $2^n - 2$. The

"n" in the host's formula represents the number of bits used for host addressing. If we apply the formula ($2^2 - 2$), a /30 subnet mask will provide 2 IP addresses.

QUESTION 12



Which of the following switches is used with ARP to display the cache entry for a specific IP address?

- A. -a
- B. -d
- C. -g
- D. -s

Correct Answer: A

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