

# N10-008<sup>Q&As</sup>

CompTIA Network+

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**QUESTION 1**

Given the following Information:

Connection	Cable length	Cable type	Configuration
PC A to switch 1	394ft (120m)	Cat 5	Straight through
Switch 1 to switch 2	3.3ft (1m)	Cat 6	Crossover
Switch 2 to PC B	16ft (5m)	Cat 5	Straight through

Which of the following would cause performance degradation between PC A and PC B\?

- A. Attenuation
- B. Interference
- C. Decibel loss
- D. Incorrect pinout

Correct Answer: A

"Attenuation is the weakening of a signal as it travels long distances and is caused when wave signals travel too far without help. As a cable run gets longer, the attenuation increases, and the signal becomes weaker."

**QUESTION 2**

An IT technician needs to increase bandwidth to a server. The server has multiple gigabit ports. Which of the following can be used to accomplish this without replacing hardware?

- A. STP
- B. 802.1Q
- C. Duplex
- D. LACP

Correct Answer: D

LACP stands for Link Aggregation Control Protocol and is a protocol that allows multiple physical ports to be combined into a single logical port. This can increase bandwidth, redundancy, and load balancing for a server. LACP is part of the IEEE 802.3ad standard for link aggregation. STP stands for Spanning Tree Protocol and is a protocol that prevents loops in a network by blocking redundant links. 802.1Q is a standard for VLAN (Virtual Local Area Network) tagging, which allows multiple logical networks to share the same physical infrastructure. Duplex is a mode of communication that determines how data is transmitted and received on a link. Full duplex allows simultaneous transmission and reception, while half duplex allows only one direction at a time. References: CompTIA Network+ Certification Exam Objectives Version 7.0 (N10-007), Objective 1.5: Compare and contrast network cabling types, standards and speeds.

**QUESTION 3**

A network administrator wants to know which systems on the network are at risk of a known vulnerability. Which of the following should the administrator reference?

- A. SLA
- B. Patch management policy
- C. NDA
- D. Site survey report
- E. CVE

Correct Answer: E

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**QUESTION 4**

Which of the following would be BEST to install to find and block any malicious users within a network?

- A. IDS
- B. IPS
- C. SCADA
- D. ICS

Correct Answer: B

IPS (Intrusion Prevention System) has block actions, where as IDS (Intrusion Detection System) only detects and alerts, but doesn't block

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**QUESTION 5**

A technician is troubleshooting a report about network connectivity issues on a workstation. Upon investigation, the technician notes the workstation is showing an APIPA address on the network interface. The technician verifies that the VLAN assignment is correct and that the network interlace has connectivity. Which of the following is MOST likely the issue the workstation is experiencing?

- A. DHCP exhaustion
- B. A rogue DHCP server
- C. A DNS server outage
- D. An incorrect subnet mask

Correct Answer: A

APIPA (Automatic Private IP Addressing) is a feature built into Windows operating systems that allows a computer to automatically assign itself an IP address when it is unable to obtain one through DHCP. When DHCP exhaustion

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occurs, new clients that attempt to join the network will not be able to obtain an IP address from the DHCP server, and as a result, the computer will use an APIPA address to communicate on the network.

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