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QUESTION 1

A research facility is expecting to see an exponential increase in global network traffic in the near future. The offices are equipped with 2.5Gbps fiber connections from the ISP, but the facility is currently only utilizing 1Gbps connections. Which of the following would need to be configured in order to use the ISP's connection speed?

- A. 802.1Q tagging
- B. Network address translation
- C. Port duplex
- D. Link aggregation

Correct Answer: D

Understanding Link Aggregation:

uk.co.certification.simulator.questionpool.PList@70569ef2 Usage in High-Bandwidth Scenarios:

Comparison with Other Options:

Implementation:

References:

CompTIA Network+ study materials on network configuration and link aggregation.

QUESTION 2

A user reports having intermittent connectivity issues to the company network. The network configuration for the user reveals the following: IP address: 192.168.1.10

Subnet mask: 255.255.255.0 Default gateway: 192.168.1.254 The network switch shows the following ARP table:

MAC address	IP address	Interface	VLAN
0c00.1134.0001	192.168.1.10	eth4	10
0c00.1983.210a	192.168.2.13	eth5	11
0c00.1298.d239	192.168.1.10	eth6	10
0c00.a291.c113	192.168.2.12	eth7	11
0c00.923b.2391	192.168.1.11	eth8	10
feff.2391.1022	192.168.1.254	eth1	10

Which of the following is the most likely cause of the user's connection issues?

- A. A port with incorrect VLAN assigned
- B. A switch with spanning tree conflict
- C. Another PC with manually configured IP
- D. A router with overlapping route tables

Correct Answer: C

QUESTION 3

An organization has experienced an increase in malicious spear-phishing campaigns and wants to mitigate the risk of hyperlinks from inbound emails.

Which of the following appliances would best enable this capability?

- A. Email protection gateway
- B. DNS server
- C. Proxy server
- D. Endpoint email client
- E. Sandbox

Correct Answer: A

An email protection gateway is an appliance that can filter and block malicious emails and attachments before they reach the recipients. An email protection gateway can mitigate the risk of hyperlinks from inbound emails by scanning the links for malicious content, rewriting the links to point to a safe domain, or blocking the links altogether. An email protection gateway can also perform other functions such as spam filtering, antivirus scanning, encryption, and data loss prevention. A DNS server, a proxy server, an endpoint email client, and a sandbox are not appliances that can enable this capability, as they have different purposes and functions.

QUESTION 4

A network administrator performed upgrades on a server and installed a new NIC to improve performance. Following the upgrades, users are unable to reach the server. Which of the following is the most likely reason.

- A. The PoE power budget was exceeded.
- B. TX/RX was transposed.
- C. A port security violation occurred.
- D. An incorrect cable type was installed.

Correct Answer: D

When a network administrator installs a new Network Interface Card (NIC) and users are unable to reach the server, one of the common issues is the use of an incorrect cable type. Network cables must match the specifications required

by

the NIC and the network infrastructure (e.g., Cat5e, Cat6 for Ethernet). NIC Compatibility: The new NIC might require a specific type of cable to function properly. Using a cable not rated for the NIC's required speeds or capabilities can result

in connectivity issues.

Cable Standards: Different NICs and network devices might need different cabling standards (straight-through vs. crossover cables, or specific fiber optic types). Connection Types: Ensuring that the cable connectors are appropriate for the

NIC ports (e.g., RJ45 for Ethernet, LC connectors for fiber optics).

Network References:

CompTIA Network+ N10-007 Official Certification Guide: Discusses network cabling standards and NIC specifications.

Cisco Networking Academy: Provides insights into cabling and NIC configurations for optimal network performance.

Network+ Certification All-in-One guide: Offers comprehensive details on troubleshooting network connectivity issues, including cabling problems.

QUESTION 5

After installing a new 6E wireless router in a small office, a technician notices that some wireless devices are not able to achieve the rated speeds. Which of the following should the technician check to troubleshoot the issue? (Choose two.)

- A. Client device compatibility
- B. Back-end cabling
- C. Weather phenomena
- D. Voltage source requirements
- E. Interference levels
- F. Processing power

Correct Answer: AE

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