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Questions & Answers

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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and
Topic 2	<ul style="list-style-type: none">• Cloud concepts and connectivity options, and Common networking ports.
Topic 3	<ul style="list-style-type: none">• Networking Concepts: For network administrators and IT support professionals, this domain covers

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CompTIA Network+ Certification Exam Sample Questions (Q356-Q361):

NEW QUESTION # 356

A virtual machine has the following configuration:

*IPv4 address: 169.254.10.10

*Subnet mask: 255.255.0.0

The virtual machine can reach colocated systems but cannot reach external addresses on the Internet. Which of the following is most likely the root cause?

- A. The DNS server is unreachable.
- B. The subnet mask is incorrect.
- C. The DHCP server is offline.
- D. The IP address is an RFC1918 private address.

Answer: C

Explanation:

* Understanding the 169.254.x.x Address:

* An IPv4 address in the range of 169.254.x.x is an Automatic Private IP Addressing (APIPA) address, assigned when a DHCP server is unavailable.

* DHCP Server Offline:

* APIPA Assignment: When a device cannot obtain an IP address from a DHCP server, it assigns itself an APIPA address to enable local network communication. This allows communication with other devices on the same local subnet but not with external networks.

* Resolution: Ensure the DHCP server is operational. Check for connectivity issues between the virtual machine and the DHCP server, and verify the DHCP server settings.

* Comparison with Other Options:

* The subnet mask is incorrect: The subnet mask 255.255.0.0 is appropriate for the 169.254.x.x range and does not prevent external access by itself.

* The IP address is an RFC1918 private address: RFC1918 addresses are private IP ranges (10.x.x.x, 172.16.x.x-172.31.x.x, 192.168.x.x) but 169.254.x.x is not one of them.

* The DNS server is unreachable: While this could affect name resolution, it would not prevent the assignment of a non-APIPA address or local network communication.

* Troubleshooting Steps:

* Verify the DHCP server's status and connectivity.

* Restart the DHCP service if necessary.

* Renew the IP lease on the virtual machine using commands such as `ipconfig /renew` (Windows) or `dhclient` (Linux).

References:

* CompTIA Network+ study materials on IP addressing and DHCP troubleshooting.

NEW QUESTION # 357

A network engineer wants to implement a new IDS between the switch and a router connected to the LAN.

The engineer does not want to introduce any latency by placing the IDS in line with the gateway. The engineer does want to ensure that the IDS sees all packets without any loss. Which of the following is the best way for the engineer to implement the IDS?

- A. Use Nmap software.
- B. Use a protocol analyzer.

- C. Use a port mirror.
- D. Use a network tap.

Answer: C

NEW QUESTION # 358

A systems administrator is configuring a new device to be added to the network. The administrator is planning to perform device hardening prior to connecting the device. Which of the following should the administrator do first?

- A. Place the device in a screened subnet.
- B. Enable content filtering.
- C. Change the default admin passwords.
- D. Update the network ACLs.

Answer: C

Explanation:

Changing default admin passwords is a fundamental first step in device hardening to prevent unauthorized access.

NEW QUESTION # 359

A company recently rearranged some users' workspaces and moved several users to previously used workspaces. The network administrator receives a report that all of the users who were moved are having connectivity issues. Which of the following is the MOST likely reason?

- A. Ports are error-disabled.
- B. Ports are having an MDIX issue.
- C. Ports are trunk ports.
- D. Ports have an incorrect native VLAN.

Answer: D

Explanation:

The most likely cause is that the switchports were previously configured for a different VLAN than the one the users' computers are on. If the native VLAN on the port doesn't match the end device's VLAN, communication fails.

* A. Ports are error-disabled: Would result in no link at all, not common across multiple ports unless a violation occurred.

* C. MDIX issue: Auto-MDIX eliminates most crossover problems on modern switches.

* D. Ports are trunk ports: While possible, typical user devices should be on access ports, but if the port is incorrectly trunked, it can cause similar issues. However, "incorrect VLAN" is more precise here.

#Reference:

CompTIA Network+ N10-009 Official Objectives: 2.3 - Given a scenario, configure and verify VLANs.

NEW QUESTION # 360

Which of the following is the most secure way to provide site-to-site connectivity?

- A. IKE
- B. IPsec
- C. GRE
- D. VXLAN

Answer: B

Explanation:

IPsec (Internet Protocol Security) is the most secure way to provide site-to-site connectivity. It provides robust security services, such as data integrity, authentication, and encryption, ensuring that data sent across the network is protected from interception and tampering. Unlike other options, IPsec operates at the network layer and can secure all traffic that crosses the IP network, making it the most comprehensive and secure choice for site-to-site VPNs.

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