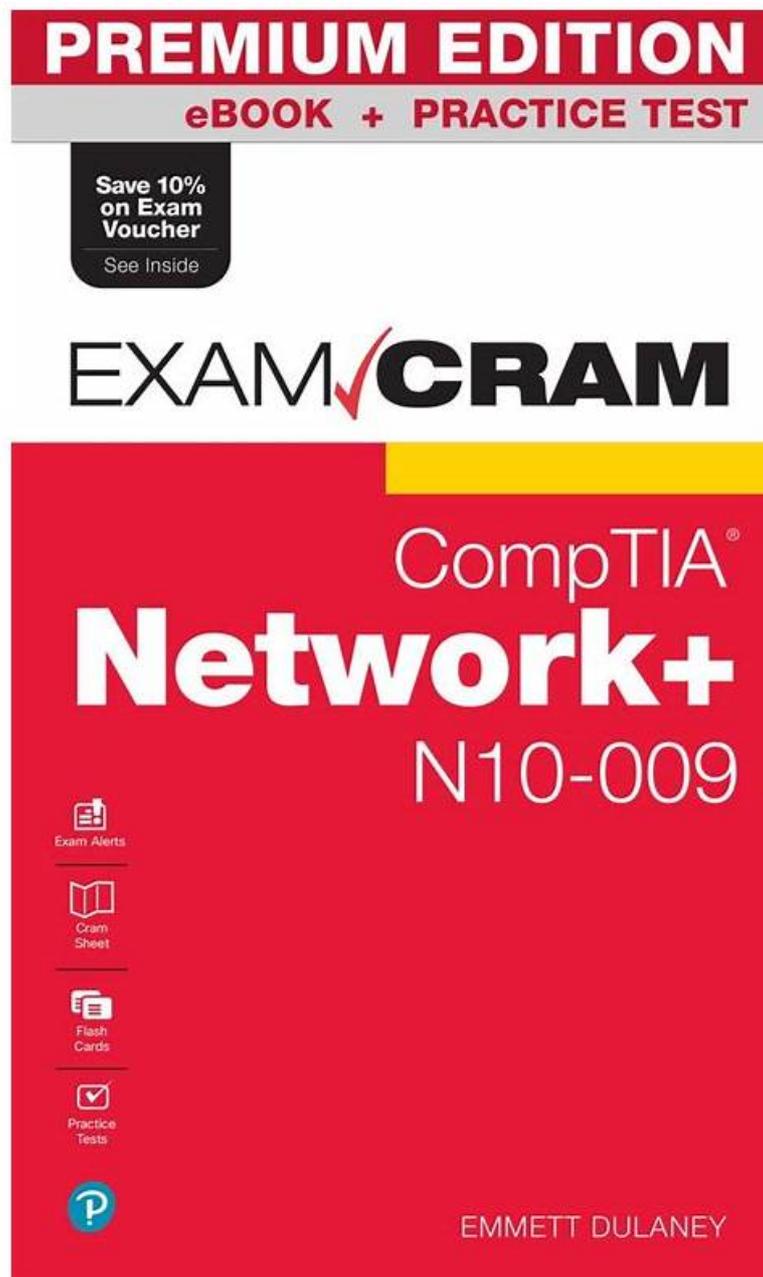


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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Selection and configuration of wireless devices.
Topic 2	<ul style="list-style-type: none">• Network Operations: For IT operations staff and network operations center (NOC) technicians, this part of the exam covers the purpose of organizational processes and procedures and use of network monitoring technologies.
Topic 3	<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 4	<ul style="list-style-type: none">• OSI reference model concepts, Comparison of networking appliances, applications, and functions

CompTIA Network+ Certification Exam Sample Questions (Q223-Q228):

NEW QUESTION # 223

A network administrator needs to divide 192.168.1.0/24 into two equal halves. Which of the following subnet masks should the administrator use?

- A. 255.255.255.128
- B. 255.255.255.0
- C. 255.255.0.0
- D. 255.255.254.0

Answer: A

Explanation:

* Understanding Subnetting:

* Original Network:192.168.1.0/24 has a subnet mask of 255.255.255.0, which allows for 256 IP addresses (including network and broadcast addresses).

* Objective:Divide this network into two equal subnets.

* Calculating Subnet Mask:

* New Subnet Mask:To divide 192.168.1.0/24 into two equal halves, we need to borrow one bit from the host portion of the address, changing the subnet mask to 255.255.255.128 (/25).

* Subnet Breakdown:

* First Subnet: 192.168.1.0/25 (192.168.1.0 - 192.168.1.127)

* Second Subnet: 192.168.1.128/25 (192.168.1.128 - 192.168.1.255)

* Verification:

* Each subnet now has 128 IP addresses (126 usable IP addresses, excluding the network and broadcast addresses).

* Comparison with Other Options:

* 255.255.0.0 (/16):Provides a much larger network, not dividing the original /24 network.

* 255.255.254.0 (/23):Also creates a larger subnet, encompassing more than the original /24 network.

* 255.255.255.0 (/24):Maintains the original subnet size, not dividing it.

References:

* CompTIA Network+ study materials on subnetting and IP addressing.

NEW QUESTION # 224

A network engineer is installing new PoE wireless APs. The first five APs deploy successfully, but the sixth one fails to start. Which of the following should the engineer investigate first?

- A. Duplex mismatch
- **B. Power budget**
- C. CRC
- D. Signal strength

Answer: B

Explanation:

When deploying multiple Power over Ethernet (PoE) devices, the switch's power budget can be exhausted. If the available wattage on the switch cannot supply the additional AP, it will fail to power on. This is the most likely cause when previous APs worked fine but a new one does not.

A). Signal strength affects wireless connectivity, not whether the AP powers up.

B). Duplex mismatch causes poor throughput, not power failure.

D). CRC errors point to cabling issues but do not prevent booting if no power is available.

References (CompTIA Network+ N10-009):

Domain: Network Troubleshooting - PoE power budget considerations, device startup issues.

NEW QUESTION # 225

A network administrator wants to configure a backup route in case the primary route fails. A dynamic routing protocol is not installed on the router. Which of the following routing features should the administrator choose to accomplish this task?

- A. Link state flooding
- B. Hop count
- C. Neighbor adjacency
- **D. Administrative distance**

Answer: D

Explanation:

* Introduction to Administrative Distance

* Administrative distance (AD) is a value used by routers to rank routes from different routing protocols. AD represents the trustworthiness of the source of the route. Lower AD values are more preferred. If a router has multiple routes to a destination from different sources, it will choose the route with the lowest AD.

* Static Routes and Backup Routes

* When a dynamic routing protocol is not used, static routes can be employed. Static routes are manually configured routes. To ensure a backup route, multiple static routes to the same destination can be configured with different AD values.

* Configuring Static Routes with Administrative Distance

* The primary route is configured with a lower AD value, making it the preferred route. The backup route is configured with a higher AD value. In the event of the primary route failure, the router will then use the backup route.

* Example Configuration:

plaintext

Copy code

```
ip route 192.168.1.0 255.255.255.0 10.0.0.1 1
```

```
ip route 192.168.1.0 255.255.255.0 10.0.0.2 10
```

* In the above example, 192.168.1.0/24 is the destination network.

* 10.0.0.1 is the next-hop IP address for the primary route with an AD of 1.

* 10.0.0.2 is the next-hop IP address for the backup route with an AD of 10.

* Verification:

* After configuration, use the `show ip route` command to verify that the primary route is in use and the backup route is listed as a candidate for use if the primary route fails.

References:

* CompTIA Network+ guide explains the concept of administrative distance and its use in static routing configuration (see pageRef 9†Basic Configuration Commands).

NEW QUESTION # 226

Which of the following best explains the role of confidentiality with regard to data at rest?

- A. Data can be accessed by anyone on the administrative network.
- B. Data can be accessed remotely with proper training.
- C. Data can be accessed after privileged access is granted.
- D. Data can be accessed after verifying the hash.

Answer: C

Explanation:

Confidentiality with Data at Rest: Confidentiality is a core principle of data security, ensuring that data stored (at rest) is only accessible to authorized individuals. This protection is achieved through mechanisms such as encryption, access controls, and permissions.

Privileged Access: The statement "Data can be accessed after privileged access is granted" aligns with the confidentiality principle, as it restricts data access to users who have been granted specific permissions or roles. Only those with the appropriate credentials or permissions can access the data.

Incorrect Options:

A). "Data can be accessed by anyone on the administrative network." This violates the principle of confidentiality by allowing unrestricted access.

B). "Data can be accessed remotely with proper training." This focuses on remote access rather than restricting access based on privileges.

D). "Data can be accessed after verifying the hash." This option relates more to data integrity rather than confidentiality.

CompTIA Network+ materials on data security principles, particularly sections on confidentiality and access control mechanisms.

NEW QUESTION # 227

Which of the following allows for the interception of traffic between the source and destination?

- A. VLAN hopping
- B. Self-signed certificate
- C. Phishing
- D. On-path attack

Answer: D

Explanation:

Comprehensive and Detailed Explanation:

On-path attack (formerly known as man-in-the-middle (MITM) attack) involves intercepting and potentially altering communications between two parties without their knowledge. This can be done via techniques like ARP poisoning, rogue access points, or SSL stripping.

Breakdown of Options:

* A. Self-signed certificate- These are untrusted SSL certificates but do not intercept traffic.

* B. VLAN hopping- VLAN hopping exploits VLAN misconfigurations but does not necessarily intercept communications.

* C. On-path attack- Correct answer. This intercepts and modifies traffic between two endpoints.

* D. Phishing- Phishing tricks users into revealing credentials rather than intercepting network traffic.

NEW QUESTION # 228

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