

# N10-009 Latest Study Plan & Valid Exam N10-009 Book



## CompTIA Network+ (N10-009) Study Plan

### Purpose

This study plan contains general study tips, an overview of how to create and use flashcards effectively, other study tools, a suggested 30-day study plan, and a suggested 60-day study plan. The purpose is to provide students with some general information and a general plan that they can adapt to fit their own learning goals.

### General Study Tips

- **Studying and learning are very individualistic.**
  - Not everything works for everybody. Find the tools, methods, and strategies that work for you.
  
- **The average person has an attention span of 20-30 minutes.**
  - Once you have reached the limit of your attention on a task, you should do something else for a while.
  - Any time you spend studying beyond your attention span is generally wasted time because the studying will become increasingly inefficient.
  - The key to maintaining attention is to divide work into different tasks and alternate types of tasks. For example, you can watch videos for 20 minutes, then review notes for 10 minutes, then work on learning tools for 15 minutes, then get up and move around for 15 minutes before returning to videos. You can also

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## CompTIA Network+ Certification Exam Sample Questions (Q212-Q217):

### NEW QUESTION # 212

Which of the following can support a jumbo frame?

- A. Hub
- B. Bridge
- C. Access point
- D. **Switch**

**Answer: D**

Explanation:

Definition of Jumbo Frames:

Jumbo frames are Ethernet frames with more than 1500 bytes of payload, typically up to 9000 bytes. They are used to improve network performance by reducing the overhead caused by smaller frames.

Why Switches Support Jumbo Frames:

Switches are network devices designed to manage data packets and can be configured to support jumbo frames. This capability enhances throughput and efficiency, particularly in high-performance networks and data centers.

Incompatibility of Other Devices:

Access Point: Primarily handles wireless communications and does not typically support jumbo frames.

Bridge: Connects different network segments but usually operates at standard Ethernet frame sizes.

Hub: A simple network device that transmits packets to all ports without distinguishing between devices, incapable of handling jumbo frames.

Practical Application:

Enabling jumbo frames on switches helps in environments where large data transfers are common, such as in storage area networks (SANs) or large-scale virtualized environments.

Reference:

CompTIA Network+ course materials and networking hardware documentation.

### NEW QUESTION # 213

After a company installed a new IPS, the network is experiencing speed degradation. A network administrator is troubleshooting the issue and runs a speed test. The results from the different network locations are as follows:

Location Speed Down Speed Up

Wireless laptop 4.8 Mbps 47.1 Mbps

Wired desktop 5.2 Mbps 49.3 Mbps

Firewall 48.8 Mbps 49.5 Mbps

Which of the following is the most likely issue?

- A. Channel overlap
- B. Network congestion
- C. **Bottlenecking**
- D. Packet loss

**Answer: C**

Explanation:

Bottlenecking occurs when a device in the network (such as an IPS) cannot process traffic efficiently, resulting in a dramatic drop in throughput. The significant difference between the firewall's speed (48.8 Mbps down) and the end-user devices' speeds (4.8 - 5.2 Mbps down) indicates a bottleneck caused by the IPS.

\*Why not the other options?

\*Packet loss (A) - Would typically cause connection timeouts, not just slow speeds.

\*Channel overlap (C) - Affects only wireless networks, but the wired desktop is also experiencing slow speeds.

\*Network congestion (D) - Would show fluctuations in both upload and download speeds, but upload speeds remain unaffected.

### NEW QUESTION # 214

To reduce costs and increase mobility, a Chief Technology Officer (CTO) wants to adopt cloud services for the organization and its affiliates. To reduce the impact for users, the CTO wants key services to run from the on-site data center and enterprise services to

run in the cloud. Which of the following deployment models is the best choice for the organization?

- A. Public
- B. Private
- **C. Hybrid**
- D. SaaS

**Answer: C**

Explanation:

A hybrid cloud deployment model is the best choice for the CTO's requirements. It allows the organization to run key services from the on-site data center while leveraging the cloud for enterprise services. This approach provides flexibility, scalability, and cost savings, while also minimizing disruptions to users by keeping critical services local. The hybrid model integrates both private and public cloud environments, offering the benefits of both.

Reference: CompTIA Network+ study materials and cloud computing principles.

#### NEW QUESTION # 215

What is the most likely cause for a new Access Point (AP) failing to power on when previous APs worked fine?

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

**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 # 216

Which of the following is an XML-based security concept that works by passing sensitive information about users, such as login information and attributes, to providers?

- A. IAM
- B. MFA
- **C. SAML**
- D. RADIUS

**Answer: C**

Explanation:

The correct answer is SAML (Security Assertion Markup Language). SAML is an XML-based standard used for single sign-on (SSO) and identity federation. It allows identity providers (IdPs) to share authentication and authorization data with service providers (SPs), passing secure tokens containing user attributes and credentials.

- A . IAM (Identity and Access Management) is the broader framework, not specifically XML-based.
- B . MFA enforces multiple factors for authentication but does not involve XML assertions.
- C . RADIUS is an AAA protocol, but it uses UDP, not XML assertions.

SAML is widely used in federated identity systems, enabling secure authentication across different domains and applications without requiring multiple credentials.

#### NEW QUESTION # 217

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