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## CompTIA

**N10-009 Exam**  
CompTIA Network+ Exam

## Questions & Answers

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### CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>OSI reference model concepts, Comparison of networking appliances, applications, and functions</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>• <b>Network Security:</b> This section of the exam for cybersecurity specialists and network security administrators covers the importance of basic network security concepts, Various types of attacks and their impact on the network, application of network security features, defense techniques, and solutions.</li> <li>• <b>Network Troubleshooting:</b> For help desk technicians and network support specialists, this section covers troubleshooting methodology, troubleshooting common cabling and physical interface issues, troubleshooting common issues with network services, and use of appropriate tools or protocols to solve networking issues.</li> </ul>
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### **CompTIA Network+ Certification Exam Sample Questions (Q129-Q134):**

#### **NEW QUESTION # 129**

A new backup system takes too long to copy files to the new SAN each night. A network administrator makes a simple change to the network and the devices to decrease backup times. Which of the following does the network administrator change?

- A. TTL
- B. VXLAN
- C. QoS
- **D. MTU**
- E. SDN

**Answer: D**

Explanation:

Increasing the MTU (Maximum Transmission Unit) size allows larger frames to be transmitted, reducing overhead and improving throughput - especially for large file transfers like backups.

- A). QoS prioritizes traffic but doesn't reduce backup times directly.
- B). SDN is a network management model, not a parameter change.
- D). VXLAN encapsulates VLANs, not relevant to backup speeds.
- E). TTL is for packet lifetime, not throughput.

References (CompTIA Network+ N10-009):

Domain: Network Infrastructure - MTU, jumbo frames, performance tuning

#### **NEW QUESTION # 130**

A network administrator needs to configure the core switches where multiple connections between data centers are used. Given the following requirements:

- \* Fault tolerance and redundancy
- \* Vendor interoperability
- \* Increased bandwidth
- \* Cost effectiveness
- \* Simplified management

Which of the following should the administrator configure?

- **A. Link aggregation**
- B. Jumbo frames
- C. Interface speeds to 10GB
- D. Spanning tree

**Answer: A**

Explanation:

The best answer is C. Link aggregation . The requirements point directly to combining multiple physical links into one logical connection. Link aggregation provides higher total bandwidth , supports redundancy if one member link fails, and simplifies administration because the bundle is managed as a single logical interface instead of several separate ones.

Another important clue is vendor interoperability . Standards-based link aggregation, such as LACP , is designed to work across different vendors when supported properly. That makes it a strong match for inter- data-center switch environments where equipment may not all come from the same manufacturer.

The other choices do not satisfy the full requirement list. Spanning tree helps prevent loops, but it can block redundant links instead of actively using them for extra bandwidth. Setting interface speeds to 10GB increases speed per port, but it does not by itself provide the logical bundling, simplified management, or redundancy benefits described. Jumbo frames can improve efficiency for some traffic types, but they are not the right answer for bandwidth aggregation and resilient uplinks.

Because the question asks for a solution that improves throughput, keeps redundancy, remains cost effective, and is easier to manage, link aggregation is the strongest fit.

### NEW QUESTION # 131

What is the correct second factor in multi-factor authentication (MFA)?

- A. Mother's maiden name
- **B. Hard token**
- C. Favorite color
- D. PIN

**Answer: B**

Explanation:

MFA (Multi-Factor Authentication) requires factors from different categories:

\* Something you know # Password, PIN

\* Something you have # Smart card, hardware (hard) token

\* Something you are # Biometric

The correct second factor is a hard token.

\* A. PIN = something you know (same factor as password).

\* B. Favorite color = knowledge-based, same factor as password.

\* D. Mother's maiden name = weak knowledge-based, same factor as password.

References (CompTIA Network+ N10-009):

\* Domain: Network Security - Authentication methods, MFA categories.

### NEW QUESTION # 132

Which of the following network cables involves bounding light off of protective cladding?

- **A. Multimode**
- B. Twinaxial
- C. Single-mode
- D. Coaxial

**Answer: A**

Explanation:

Multimode fiber optic cables involve the transmission of light signals that bounce off the core's cladding as they travel down the fiber. This characteristic differentiates it from single-mode fiber, where the light travels directly down the fiber without reflecting off the cladding.

Here are some detailed points about multimode fiber cables:

\* Construction: Multimode fibers have a larger core diameter, typically 50 or 62.5 microns, compared to single-mode fibers, which have a core diameter of about 9 microns.

\* Light Propagation: The larger core of multimode fiber allows multiple light modes to propagate.

These modes travel at different angles, leading to reflections off the core-cladding boundary.

\* Distance and Bandwidth: Due to modal dispersion, where different light modes arrive at the receiver at different times, multimode fibers are suited for shorter distance applications compared to single- mode fibers. Typical distances are up to 550 meters for 10

Gbps Ethernet using OM4 multimode fiber.

\* Applications: Multimode fibers are commonly used in LANs (Local Area Networks), data centers, and for shorter distance data transmission due to their cost-effectiveness and ease of installation.

Network References:

\* CompTIA Network+ N10-007 Official Certification Guide, which covers fiber optic technologies, including the differences between multimode and single-mode fibers.

\* Cisco Networking Academy: Provides training materials and reference guides on the properties of different fiber optic cables.

\* Fiber Optic Association (FOA): A professional society dedicated to fiber optics, offering extensive information and certification on fiber optic technologies.

Multimode fibers are specifically designed for short-range communication with higher data rates and are typically used in environments like data centers, where high bandwidth over shorter distances is crucial. The reflections off the cladding, inherent to multimode fiber, facilitate this high-capacity communication.

### NEW QUESTION # 133

A network technician is troubleshooting network latency and has determined the issue to be occurring two network switches (Switch10 and Switch11). Symptoms reported included poor video performance and slow file copying. Given the following information:

Which of the following should the technician most likely do to resolve the issue?

- A. Modify Switch10 MTU value to 1500.
- B. Configure STP on both switches.
- C. Change the native VLAN on the ports.
- D. Disable automatic negotiation on Switch11.

**Answer: A**

### NEW QUESTION # 134

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