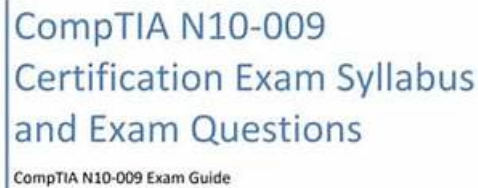


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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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
Topic 4	<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 5	<ul style="list-style-type: none">• Network Security: 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. Network Troubleshooting: 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.

CompTIA Network+ Certification Exam Sample Questions (Q403-Q408):

NEW QUESTION # 403

Which of the following is a characteristic of the application layer?

- A. It encrypts data in transit.
- **B. It relies upon other layers for packet delivery.**
OB. It checks independently for packet loss.
- C. It performs address translation.

Answer: B

Explanation:

Introduction to OSI Model:

The OSI model is a conceptual framework used to understand network interactions in seven layers: Physical, Data Link, Network, Transport, Session, Presentation, and Application.

Application Layer:

The application layer (Layer 7) is the topmost layer in the OSI model. It provides network services directly to end-user applications. This layer facilitates communication between software applications and lower layers of the network protocol stack.

Reliance on Other Layers:

The application layer relies on the transport layer (Layer 4) for data transfer across the network. The transport layer ensures reliable data delivery through protocols like TCP and UDP.

The network layer (Layer 3) is responsible for routing packets to their destination.

The data link layer (Layer 2) handles node-to-node data transfer and error detection.

The physical layer (Layer 1) deals with the physical connection between devices.

Explanation of the Options:

A . It relies upon other layers for packet delivery: This is correct. The application layer depends on the lower layers (transport, network, data link, and physical) for the actual delivery of data packets.

B . It checks independently for packet loss: This is incorrect. Packet loss detection is typically handled by the transport layer (e.g., TCP).

C . It encrypts data in transit: This is incorrect. Encryption is typically handled by the presentation layer or at the transport layer (e.g., TLS/SSL).

D . It performs address translation: This is incorrect. Address translation is performed by the network layer (e.g., NAT).

Conclusion:

The application layer's primary role is to interface with the end-user applications and ensure that data is correctly presented to the user. It relies on the underlying layers to manage the actual data transport and delivery processes.

Reference:

CompTIA Network+ guide covering the OSI model and the specific roles and functions of each layer (see page Ref 10fHow to Use Cisco Packet Tracer).

NEW QUESTION # 404

A network administrator is unable to ping a remote server from a newly connected workstation that has been added to the network. Ping to 127.0.0.1 on the workstation is failing. Which of the following should the administrator perform to diagnose the problem?

- **A. Verify the NIC interface status.**
- B. Verify the router is not dropping packets.
- C. Verify that DNS is resolving correctly.
- D. Verify the network is not congested.

Answer: A

Explanation:

The failure of a ping to 127.0.0.1 (the loopback address) indicates a problem with the workstation's TCP/IP stack or network interface card (NIC). Since 127.0.0.1 is a local address, the issue is not related to the network, router, or DNS. The first step in diagnosing this issue is to verify the NIC interface status to ensure the network adapter is functioning and properly configured. Why not Verify the network is not congested? Network congestion affects external connectivity, not the loopback address. Why not Verify the router is not dropping packets? Router issues are irrelevant since the loopback ping fails locally. Why not Verify that DNS is resolving correctly? DNS resolution is not involved in pinging 127.0.0.1, which uses a direct IP address.

NEW QUESTION # 405

Which of the following technologies are X.509 certificates most commonly associated with?

- A. VLAN tagging
- B. 509 certificates are most commonly associated with Public Key Infrastructure (PKI). These certificates are used for a variety of security functions, including digital signatures, encryption, and authentication.
- C. MFA
- **D. PKI**
- E. LDAP

Answer: D

Explanation:

PKI: X.509 certificates are a fundamental component of PKI, used to manage encryption keys and authenticate users and devices.

Digital Certificates: They are used to establish secure communications over networks, such as SSL/TLS for websites and secure email communication.

Authentication and Encryption: X.509 certificates provide the means to securely exchange keys and verify identities in various applications, ensuring data integrity and confidentiality.

Network Reference:

CompTIA Network+ N10-007 Official Certification Guide: Covers PKI and the role of X.509 certificates in network security.

Cisco Networking Academy: Provides training on PKI, certificates, and secure communications.

Network+ Certification All-in-One Exam Guide: Explains PKI, X.509 certificates, and their applications in securing network communications.

NEW QUESTION # 406

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

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

Answer: A

Explanation:

Security Assertion Markup Language (SAML) is an XML-based standard used for exchanging authentication and authorization data between parties, particularly between an identity provider (IdP) and a service provider (SP). SAML is commonly used in Single Sign-On (SSO) solutions to pass sensitive user information, such as login credentials and attributes, securely between the identity provider and the service provider.

SAML (Security Assertion Markup Language): Facilitates web-based authentication and authorization, allowing users to access multiple services with a single set of credentials.

XML-based: Uses XML to encode the authentication and authorization data, ensuring secure transmission of user information.

Identity Federation: Enables secure sharing of identity information across different security domains, making it ideal for enterprise SSO solutions.

Network Reference:

CompTIA Network+ N10-007 Official Certification Guide: Covers authentication protocols, including SAML.

Cisco Networking Academy: Provides training on identity management and federation technologies.

Network+ Certification All-in-One Exam Guide: Explains SAML and its role in secure identity management and SSO.

NEW QUESTION # 407

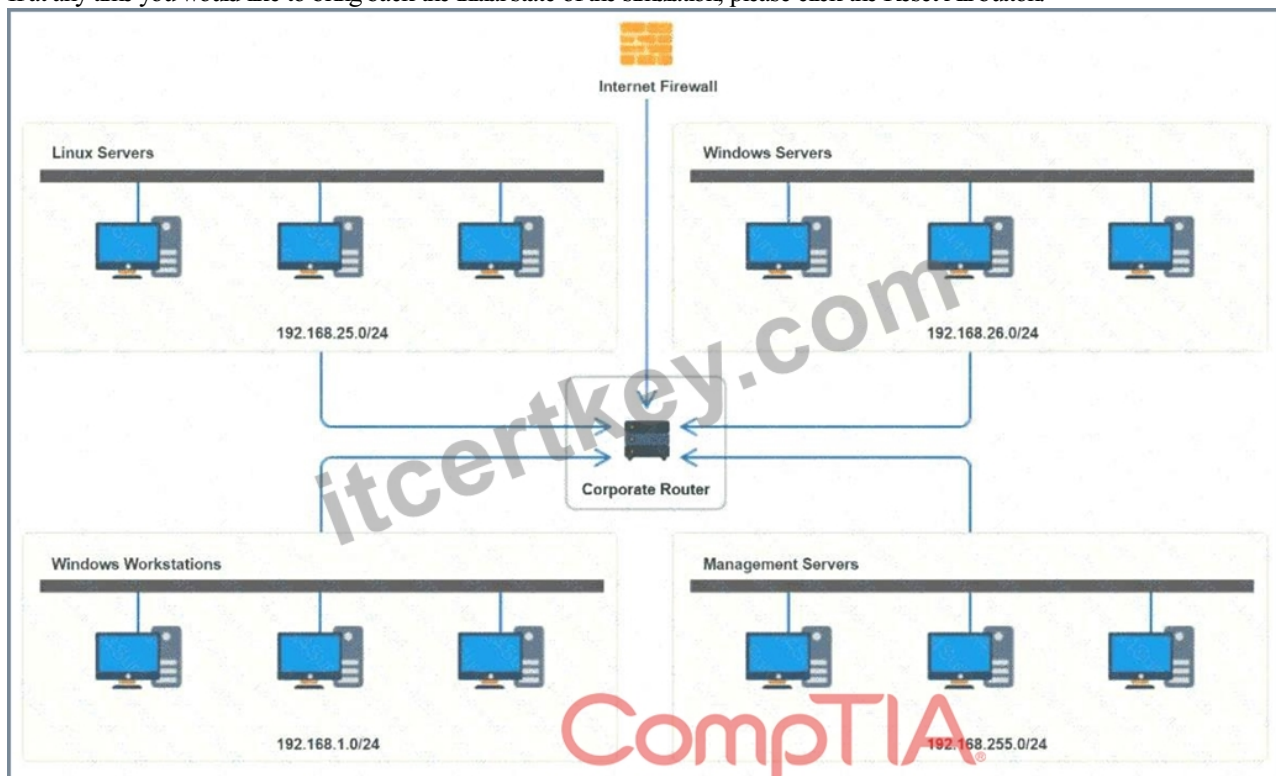
You have been tasked with implementing an ACL on the router that will:

1. Permit the most commonly used secure remote access technologies from the management network to all other local network segments
2. Ensure the user subnet cannot use the most commonly used remote access technologies in the Linux and Windows Server segments.
3. Prohibit any traffic that has not been specifically allowed.

INSTRUCTIONS

Use the drop-downs to complete the ACL

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



Answer:

Explanation:

See the answer and solution below.

Explanation:

A screenshot of a computer screen AI-generated content may be incorrect.

Router Access Control List					
Rule	Source	Destination	Protocol	Service	Action
1	192.168.255.0	192.168.26.0	TCP	SSH	Allow
2	192.168.255.0	192.168.25.0	TCP	SSH	Allow
3	192.168.255.0	192.168.1.0	TCP	SSH	Allow
4	192.168.255.0	192.168.26.0	TCP	SMB	Allow
5	192.168.255.0	Any	Any	Any	Deny
6	192.168.1.0	Any	TCP	RDP	Deny
7	192.168.1.0	Any	TCP	VNC	Deny
8	192.168.1.0	Any	Any	Any	Allow
9	Any	Any	Any	Any	Deny

NEW QUESTION # 408

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