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QUESTION 1

A network administrator requires redundant routers on the network, but only one default gateway is configurable on a workstation. Which of the following will allow for redundant routers with a single IP address?

- A. EIGRP
- B. VRRP
- C. MPLS
- D. STP

Correct Answer: B

VRRP (Virtual Router Redundancy Protocol) is a protocol that provides a way to have redundant routers on a network, allowing for a single default gateway IP address to be configured on workstations. In a VRRP setup, multiple routers share a virtual IP address and a virtual MAC address. One router is elected as the master, and if it fails, another router takes over, ensuring continuous network connectivity.

Options A (EIGRP), C (MPLS), and D (STP) are not specifically designed for providing redundant routers with a single IP address for workstations. EIGRP is a routing protocol, MPLS is a networking technology, and STP (Spanning Tree Protocol) is used for loop prevention in Ethernet networks.

QUESTION 2

A network technician is troubleshooting a new web server connectivity issue. The network technician discovers the following on the support ticket

1.

The server's IP address can be pinged from the client PCs

2.

Access to the web resource works correctly when on the server's console.

3.

No clients can access the servers data via URL.

4.

The server does not have a firewall configured

5.

No ACLs are preventing connectivity from the client's network. All services on the server are operating normally, which was confirmed by the server team.

Which of the following actions will resolve the issue?

- A. Reset port security on the switchport connecting the server.

- B. Adjust the web server's NTP settings to match the client settings.
- C. Configure A records for the web server.
- D. Install the correct MIB on the web server

Correct Answer: C

QUESTION 3

A customer needs six usable IP addresses. Which of the following best meets this requirement?

- A. 255.255.255.128
- B. 255.255.255.192
- C. 255.255.255.224
- D. 255.255.255.240

Correct Answer: C

QUESTION 4

A network administrator needs to implement routing capabilities in a hypervisor. Which of the following should the administrator most likely implement?

- A. VPC
- B. Firewall
- C. NFV
- D. IaaS

Correct Answer: C

To implement routing capabilities in a hypervisor, the administrator should most likely implement NFV (Network Functions Virtualization). NFV involves virtualizing network functions, such as routing, within a software environment rather than relying on dedicated hardware appliances. This allows for more flexibility, scalability, and efficient use of resources in a virtualized environment.

QUESTION 5

A network administrator wants to reduce overhead and increase efficiency on a SAN. Which of the following can be configured to achieve these goals?

- A. Port aggregation
- B. Traffic shaping

- C. Jumbo frames
- D. Flow control

Correct Answer: C

In a Storage Area Network (SAN), large amounts of data are frequently transferred, which can result in overhead and decreased efficiency. Jumbo frames can be used to reduce overhead and increase efficiency by increasing the maximum transmission unit (MTU) size for a network. By increasing the MTU size, jumbo frames can reduce the overhead associated with transmitting large amounts of data, resulting in improved performance for large data transfers, such as those that occur in a SAN.

Port aggregation (A) combines multiple physical links into a single logical link to increase the bandwidth of a network. Traffic shaping (B) is used to control the flow of data and prioritize certain types of network traffic. Flow control (D) is used to regulate the amount of data that can be transmitted on a network to prevent network congestion. While these technologies can also play a role in improving network efficiency, they are not directly related to reducing overhead in a SAN specifically.

QUESTION 6

A local firm has hired a consulting company to clean up its IT infrastructure. The consulting company notices remote printing is accomplished by port forwarding via publicly accessible IPs through the firm's firewall. Which of the following would be the MOST appropriate way to enable secure remote printing?

- A. SSH
- B. VPN
- C. Telnet
- D. SSL

Correct Answer: B

VPN (Virtual Private Network) is the most appropriate way to enable secure remote printing. VPN is a technology that creates a secure and encrypted tunnel over a public network such as the Internet. It allows remote users or sites to access a private network as if they were directly connected to it. VPN can be used for various purposes such as accessing corporate resources, bypassing geo-restrictions, or enhancing privacy and security. VPN can also be used for remote printing by allowing users to connect to a printer on the private network and send print jobs securely over the VPN tunnel.

References: <https://www.cisco.com/c/en/us/support/docs/security-vpn/ipsec-negotiation-ike-protocols/14106-how-vpn-works.html>

QUESTION 7

Kim, a network administrator, should consult which documentation sources FIRST to determine the cause of recent network issues?

- A. Network map
- B. Cable management

- C. Change management
- D. Asset management

Correct Answer: C

QUESTION 8

A user reports a laptop wireless connection is working at the user's desk but not in a recent building addition. A network administrator logs into the wireless controller, searches for the user's MAC address, and receives the following results:

Timestamp	MAC Address	RSSI
10:30 AM	01-B3-DD-09-64-FF	-48dB
3:00 PM	01-B3-DD-09-64-FF	-110dB

Which of the following describes the reason for the issue?

- A. Frequency mismatch
- B. Distance limitation
- C. Channel overlap
- D. Wrong SSID

Correct Answer: B

QUESTION 9

A technician is troubleshooting a SQL database connection. After remotely connecting to the end client, the technician tests basic connectivity. Which of the following ports is available to connect via command-line interface?

- A. 143
- B. 445
- C. 993
- D. 1521

Correct Answer: D

QUESTION 10

A technician is writing documentation regarding a company's server farm. The technician needs to confirm the server name for all Linux servers. Which of the following commands should the technician run?

- A. ipconfig
- B. nslookup
- C. arp
- D. route

Correct Answer: B

Nslookup (stands for "Name Server Lookup") is a useful command for getting information from the DNS server. It is a network administration tool for querying the Domain Name System (DNS) to obtain domain name or IP address mapping or any other specific DNS record. It is also used to troubleshoot DNS-related problems.

QUESTION 11

A network technician is installing a new fiber-optic connection between two buildings on a campus network. When the network technician connects the fiber at the second location, the interface link light does not light up. Which of the following should the technician do NEXT?

- A. Reverse the finer pair
- B. Check the duplex on each interface
- C. Install a fiber distribution panel
- D. Configure a media converter for each switch

Correct Answer: B

QUESTION 12

A network technician crimped a length of UTP with TIA/EIA-568A on one end and TIA/EIA-568B on the other. Which of the following cable types did the technician create?

- A. Crossover cable
- B. Patch cable
- C. Twinaxial cable
- D. Rollover cable

Correct Answer: A

When a network technician crimps a length of UTP (Unshielded Twisted Pair) cable with TIA/EIA-568A on one end and TIA/EIA-568B on the other, they have created a crossover cable. A crossover cable is used to connect similar devices directly, such as connecting two computers or two switches without the need for a crossover port on a hub or switch

QUESTION 13

When internal users attempt to access the company website, they are redirected to an inappropriate website. Which of the following is this scenario an example of?

- A. DNS poisoning
- B. On-path attack
- C. VLAN hopping
- D. ARP spoofing

Correct Answer: A

Domain Name System (DNS) poisoning happens when fake information is entered into the cache of a domain name server, resulting in DNS queries producing an incorrect reply, sending users to the wrong website. DNS poisoning also goes by the terms "DNS spoofing" and "DNS cache poisoning."

QUESTION 14

The management team needs to ensure unnecessary modifications to the corporate network are not permitted and version control is maintained. Which of the following documents would BEST support this?

- A. An incident response plan
- B. A business continuity plan
- C. A change management policy
- D. An acceptable use policy

Correct Answer: C

- Change Management Policy: This policy sets out the rules and guidelines for making changes to the network, including who is authorized to make changes, how changes are requested and approved, and how changes are documented.

QUESTION 15

Which of the following technologies provides a failover mechanism for the default gateway?

- A. FHRP
- B. LACP
- C. OSPF
- D. STP

Correct Answer: A

FHRP is used to prevent network failure at a default gateway. This is achieved by configuring multiple routers with the same IP address and Mac address, thus presenting an illusion of a single virtual router to the hosts in a Local Area Network (LAN).

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