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QUESTION 1

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

A. FHRP

B. LACP

C. OSPF

D. STP

Correct Answer: A

QUESTION 2

A network administrator is configuring a database server and would like to ensure the database engine is listening on a certain port. Which of the following commands should the administrator use to accomplish this goal?

A. nslookup

B. netstate -a

C. ipconfi / a

D. arp -a

Correct Answer: B

QUESTION 3

A network technician needs to implement a network security control on a switch. The solution needs to be non-invasive and prevent guests and unauthorized users from accessing the company\\'s network Which of the following would BEST meet these requirements?

A. Upgrading the firmware

B. Disabling unused ports

C. Reconfiguring the router access list

D. Patching and updating

Correct Answer: B

QUESTION 4

After rebooting an AP a user is no longer able to conned to me enterprise LAN A technician plugs a laptop In to the same network jack and receives the IP 169.254 0 200. Which of the following is MOST likely causing the issue?

A. DHCP scope exhaustion

B. Signal attenuation

C. Channel overlap

D. Improper DNS configuration

Correct Answer: A

DHCP scope exhaustion occurs when the number of available IP addresses to be leased from a DHCP server have been used up. This could be caused by a large number of clients on the network, or a misconfigured DHCP scope. When this happens, clients will be assigned an IP address from the APIPA range (169.254.0.0 to 169.254.255.255). To resolve this issue, the DHCP scope needs to be expanded or adjusted to accommodate the number of clients on the network.

QUESTION 5

A network administrator is reviewing the following metrics from a network management system regarding a switchport. The administrator suspects an issue because users are calling in regards to the switchport\\'s performance:

Metric	Value
Uptime	201 days, 3 hours, 18 minutes
MDIX	On
CRCs	0
Giants	2508
Output queue maximum	40
Packets input	136208849
Packets output	64458087024

Based on the information in the chart above, which of the following fs the cause of these performance issues?

A. The connected device is exceeding the configured MTU.

B. The connected device is sending too many packets

C. The switchport has been up for too long

D. The connected device is receiving too many packets.

E. The switchport does not have enough CRCs

Correct Answer: A

QUESTION 6

Which of the following BEST describes a network appliance that warns of unapproved devices that are accessing the network?

A. Firewall

B. AP

C. Proxy server

D. IDS

Correct Answer: D

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IDS stands for Intrusion Detection System. It is a type of security software designed to detect unauthorised access to, or attacks on, a computer network. IDS works by monitoring network traffic and looking for signs of malicious activity, such as suspicious network packets, unusual traffic patterns, or attempts to exploit vulnerabilities in the network or in specific systems.

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The goal of IDS is to provide early warning of potential security threats and to help prevent attacks before they can cause damage.

QUESTION 7

A wireless network was installed in a warehouse for employees to scan crates with a wireless handheld scanner. The wireless network was placed in the corner of the building near the ceiling for maximum coverage However users in the offices adjacent lo the warehouse have noticed a large amount of signal overlap from the new network Additionally warehouse employees report difficulty connecting to the wireless network from the other side of the building; however they have no issues when Ihey are near the antenna.

Which of the following is MOST likely the cause?

A. The wireless signal is being refracted by the warehouse\\'s windows

B. The antenna\\'s power level was set too high and is overlapping

C. An omnidirectional antenna was used instead of a unidirectional antenna

D. The wireless access points are using channels from the 5GHz spectrum

Correct Answer: C

An omnidirectional antenna was used instead of a unidirectional antenna, which is most likely the cause of the wireless network issues. An omnidirectional antenna provides wireless coverage in all directions from the antenna, which can cause signal overlap with adjacent offices and interference with other wireless networks. A unidirectional antenna, on the other hand, provides wireless coverage in a specific direction from the antenna, which can reduce signal overlap and interference and increase signal range and quality. A unidirectional antenna would be more suitable for a warehouse environment where users are located on one side of the building1.

References: https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/82068-omni-vs-direct.html

QUESTION 8

Which of the following protocols is used to allow multiple hosts to share a common IP address?

A. HTTPS

B. ARP

C. CARP

D. NAT

Correct Answer: D

QUESTION 9

A network administrator is trying to identify a device that is having issues connecting to a switchport. Which of the following would BEST help identify the issue?

A. A syslog server

B. Change management records

C. A rack diagram

D. The security log

Correct Answer: C

QUESTION 10

Which of the following uses the destination IP address to forward packets?

A. A bridge

B. A Layer 2 switch

C. A router

D. A repeater

Correct Answer: C

A router is a device that uses the destination IP address to forward packets between different networks. A bridge and a Layer 2 switch operate at the data link layer and use MAC addresses to forward frames within the same network. A repeater is a device that amplifies or regenerates signals at the physical layer

QUESTION 11

Which of the following focuses on application delivery?

A. DaaS

B. IaaS

C. SaaS

D. PaaS

Correct Answer: D

PaaS stands for Platform as a Service. It is a cloud computing service that provides a platform for developing, deploying, and managing applications. PaaS providers typically provide the following services:

1.

Operating system

2.

Programming language runtime

3.

Database

4.

Web server

5.

Application server

QUESTION 12

A technician is troubleshooting a previously encountered issue. Which of the following should the technician reference to find what solution was implemented to resolve the issue?

A. Standard operating procedures

B. Configuration baseline documents

C. Work instructions

D. Change management documentation

Correct Answer: D

Change management documentation is a record of the changes that have been made to a system or process, including the reason, date, time, and impact of each change. A technician can reference this documentation to find what solution was implemented to resolve a previously encountered issue, as well as any potential side effects or dependencies of the change. References: https://www.comptia.org/blog/what-is-change-management

QUESTION 13

A network administrator needs to provide remote clients with access to an internal web application. Which of the following methods provides the HIGHEST flexibility and compatibility while encrypting only the connection to the web application?

A. Clientless VPN

B. Virtual desktop

C. Virtual network computing

D. mGRE tunnel

Correct Answer: A

A clientless VPN (Virtual Private Network) provides the highest flexibility and compatibility for remote clients to access an internal web application because it allows remote users to connect to the internal network using a web browser, without the need to install any additional software or configurations on their device. This allows the remote users to access the web application securely over an encrypted connection, while also providing a high level of compatibility with different device types and operating systems.

QUESTION 14

A customer has asked a technician to upgrade the wireless router to the fastest speed possible. The technician performs a site survey and notices several older devices will not be able to connect to router that operates In the 5GHz range. Which of the following options should the technician suggest to the customer?

A. 802. 11a

B. 802. 11ac

C. 802. 11b

D. 802. 11n

Correct Answer: B

QUESTION 15

A network technician is utilizing DHCP. The technician has set a six-day lease time for all hosts. After which of the following time intervals should the hosts attempt to FIRST renew their address?

A. Two days

B. Three days

C. Six days

D. Seven days

Correct Answer: B