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Last Updated on June 14, 2021 by Admin Cisco Netacad ITE v7 - IT Essentials (Version 7.00) - IT Essentials 7.0 Chapter 6 Exam Answers 2020 2021 IT Essentials (Version 7.00) - IT Essentials 7.0 Chapter 6 Exam Answers There is interference from outside sources. The DHCP server is faulty. The wireless signal is too weak. The antenna on the access point is too powerful. The network passwords need to be reissued to the users. Explanation: Normally, the closer a wireless NIC is to an access point, the faster the connectivity. This problem does not require the network password to be reissued. The combination of the low bandwidth and the intermittent connectivity is pointing towards a weak signal or interference from outside sources. Disable DNS. Disable SSID broadcast. Disable DHCP. Subnet the network. Assign static IP addresses to the authorized devices. Explanation: Disabling DHCP and assigning static IP addresses only to authorized devices will prevent unauthorized devices from automatically obtaining IP address information. Without the correct IP address information, the unauthorized devices will not be able to communicate over the network. Disabling DNS will result in all connected devices no longer automatically being able to communicate with network resources by name (IP addresses would have to be used.), but will not prevent unauthorized devices from connecting and enabling potential malicious access from occurring. Subnetting the network will change the range of IP addresses used but not prevent unauthorized network access. Disabling SSID broadcasts is only applicable to wireless networks, not wired networks. ITC v7.0 - IT Essentials (Version 7.0) - IT Essentials 7.0 Chapter 6 Exam Answers 01 The SSID broadcast MAC address filtering is enabled. WEP encryption is enabled. The wireless channel is automatically selected. A well-known administrator password is set. Explanation: Default settings on wireless routers often include broadcasting the SSID and using a well-known administrative password. Both of these pose a security risk to wireless networks. WEP encryption and MAC address filtering are not set by default. The automatic selection of the wireless channel poses no security risks. description default gateway host name media state subnet mask. Explanation: A DHCP server can provide several parameters such as IP address, subnet mask, default gateway, and other optional parameters. The host name, media state, and description are present even if a DHCP server is not found. The computer cannot communicate with a DHCP server. The IP default gateway on the computer is incorrect. The network interface card driver needs to be updated. The router that connects this network to other networks is down. Explanation: In a network employing dynamic IP addressing, if a computer cannot communicate with the DHCP server to obtain an IP address, the Windows operating system automatically assigns a link-local IP, which is in the range of 169.254.0.0 to 169.254.255.255. In this case, the computer can only communicate with computers connected to the same network within this IP address range. The PC default gateway address is missing or incorrect. The PC has an incorrect IP address. The network cable connected to the user PC is faulty. The NIC on the PC is faulty. Explanation: The default gateway IP address is used to reach other networks, including the Internet. Any traffic that comes into port 25 also goes out through port 113. Any traffic that is using port 25 going out of the internal network will also be allowed to use port 113. All traffic that is sent out port 25 will open port 113 to allow inbound traffic into the internal network through port 113. Explanation: Port triggering is used to allow inbound traffic through the firewall based on outbound traffic. The trigger occurs when an application makes use of a specific port on the internal network. An external port on the firewall is then opened. This allows for temporary passage of traffic through internal ports to a specific device. The configuration needs to be fixed. The network cable is faulty. The network switch is faulty. The PC has an incorrect IP address for the DNS server. Explanation: The network card is working if the loopback address can be pinged. The LED on the network card being off points towards a faulty cable or a bad connection. APIPA DHCP Errors ICMP Explanation: In networks with few hosts, DHCP simplifies the addressing process. A DHCP server automatically assigns local IP addresses to clients. Explanation: The command ipconfig/renew will cause the computer to request a new IP address from the DHCP server. The command ipconfig/release will remove the current IP address but will not acquire a new address. The commands ipconfig and renew are used to test network connectivity. APIP APIP is a private IP Address. A Dynamic Host Configuration Protocol (DHCP) server automatically assigns IP addresses, simplifying the address assignment process. IP address lease times file transferred. SMTP sends email. ICMP is a messaging protocol that is used in troubleshooting. APIPA is Automatic Private IP Addressing, a Windows operating feature that allows DHCP clients to obtain addresses even when a DHCP server is not present. implement hash encoding for all wireless devices implement MAC address filtering implement port forwarding implement basic security on all wireless access points. Explanation: Port forwarding provides a rule-based method to direct traffic between devices on separate networks. This method provides access to devices across the Internet in a less expensive way than using a DMZ. The Internet connection is down. The DHCP server is not operational. The gateway address is incorrect. The DNS server is not operational. Explanation: If the PCs are not able to connect to a DHCP, they will be allocated an IP address within the range 169.254.0.0 – 169.254.255.255. 2001:db8:eff:a::1 2001:db8:eff:a::0001 2001:db8:eff:a::1 Explanation: There are two rules for IPv6 address compression. Rule 1: leading zeros in any hexet can be removed. Rule 2: contiguous hexets of all zeros can be compressed to a double colon. Rule two can only be applied once. /8 /16 /24 /32 Explanation: The proper CIDR notation for a subnet mask of 255.0.0.0 is /8. This is because the /8 indicates that the first eight bits of the subnet mask are set to binary 1, to disable broadcasting of the SSID to enable different 802.11 standards to provide stronger security modes to avoid interference from nearby wireless devices. Explanation: Channels 1, 6, and 11 are selected because they are 5 channels apart, thus minimizing the interference with adjacent channels. A channel frequency can interfere with channels on either side of the main frequency. All wireless devices need to be used on nonadjacent channels, the DNS server the DHCP server the FTP server the HTTP server. Explanation: If pings are successful to an IP address but not to a host name, then the problem may be that a DNS server cannot be accessed. Restart the DNS server. Statically configure a default gateway on each workstation. Verify the network cable on all user machines. Restart the DHCP server. Explanation: When a network device automatically obtains the IP address 169.254.x.x, it is unable to receive an IP address from a DHCP server. The DHCP server should be restarted to ensure that it is operational. Restart the DHCP server. Change the IP address of the file server with the ipconfig /release and ipconfig /renew commands. Change the static IP configuration on the file server. Connect the file server to the wireless network. Explanation: If an IP address conflict message is displayed, then a single IP address is being used more than once on the same network. To solve this issue, the administrator needs to give a different static IP address to the server on the network. An IP address conflict occurred. The DHCP server is misconfigured. The workstation has been configured with a static IP address. The default gateway address is misconfigured on the workstation. Explanation: In most cases in an organization, when a computer is moved from one department to another, it needs a new IP address to connect to the network. When a computer is configured with a static IP address, it will not initiate the process of obtaining a new IP address from DHCP servers. 2001:0db8:cafe:4500:1000:00d8:0058:00ab 2001:0db8:cafe:4500:1000:00d8:0058:00ab Explanation: The address has a prefix length of /64. Thus the first 64 bits represent the network portion, whereas the last 64 bits represent the host portion of the IPv6 address. 2001:0db8:cafe:0000:0835:0aa0/80 2001:0db8:cafe:0000:0835:0aa0/80 2001:0db8:cafe:0835:0aa0/80 2001:0db8:cafe:0835:0aa0/80 Explanation: There are two rules that exist to help in the reduction of the number of digits within an IPv6 address: Rule 1 is used to remove any leading 0s. After applying rule 1 to 2001:0db8:cafe:0000:0835:0000:0aa0/80, we calculate the outcome as 2001:db8:cafe:0:835:0:aa0/80. Rule 2 is used to replace any group of consecutive zeros once throughout the IPv6 address. After applying rule 2 to 2001:db8:cafe:0:835:0:aa0/80, we calculate the outcome as 2001:db8:cafe:0:835:aa0/80. Identify the problem. Test the theory to determine the cause. Establish a plan of action to resolve the problem and implement the solution. Explanation: Before a solution can be proposed or tested, the technician has to first talk to the customer to identify the problem, and establish a theory of probable cause. MAC address filtering specifies exactly which device MAC addresses are allowed to or blocked from sending data on your network.

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