

A client is using SLAAC? **It must send an ICMPv6 Neighbor**

A client packet is received by a server. The packet has a destination port number of 110.?POP3
A client packet is received by a server. The packet has a destination port number of 80. What service is the client requesting?HTTP
A client packet is received by a server. The packet has a destination port number of 67. What service is the client requesting?DHCP
A client packet is received by a server. The packet has a destination port number of 69. What service is the client requesting?TFTP
A client packet is received by a server. The packet has a destination port number of 143. What service is the client requesting?MAP
A client packet is received by a server. The packet has a destination port number of 21. What service is the client requesting?FTP
A client packet is received by a server. The packet has a destination port number of 22. What service is the client requesting?SSH
A company has a file server that shares a folder named Public. The network security policy specifies that the Public folder is assigned Read-Only?authorization
A disgruntled employee is using some free wireless networking tools to determine information about the enterprise wireless networks. ?reconnaissance

A group of Windows PCs in a new subnet has been added to an Ethernet network. ?ping?ipconfig?nslookup
A network administrator is adding a new LAN to a branch office. The new LAN must support 90 connected devices.?255.255.255.128
A network administrator is adding a new LAN to a branch office. The new LAN must support 25 connected devices.?255.255.255.224
A network administrator is adding a new LAN to a branch office. The new LAN must support 61 connected devices.?255.255.255.192
A network administrator is adding a new LAN to a branch office. The new LAN must support 4 connected devices.?255.255.255.248
A network administrator is adding a new LAN to a branch office. The new LAN must support 200 connected devices. K?255.255.255.255.0
A network administrator is adding a new LAN to a branch office. The new LAN must support 10 connected devices.?255.255.255.255.40
A network administrator wants to have the same network mask for all networks at a? 255.255.255.224
A network administrator wants to have the same subnet mask? 255.255.255.240

A network technician is researching the use of fiber optic cabling. **Fiber optic cabling requires different termination and splicing expertise from what copper cabling requires.**
A new network administrator has been asked to enter a banner message on a Cisco device. What is the fastest way a? Exit privileged EXEC mode and press Enter.
A technician with a PC is using multiple applications while connected? The data flow is being tracked based on the source port number that is used by each application.

A user is attempting to access http://www.cisco.com/ without success. Which two configuration values must be set ?DNS server/default gateway
A user is complaining that an external web page is taking longer? Tracerit

A user sends an HTTP? **the MAC address of the default gateway**

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A wired laser printer is attached to a home computer. ?peer-to-peer (P2P)

An administrator defined a local user?Configure the IP domain name on the router./Generate the SSH keys. Enable inbound vty SSH sessions.

An employee of a large corporation remotely logs into the company using the appropriate username and password. ?security/quality of service/fault tolerance

An organization is assigned an IPv6 address block of 2001:ab8:0:cab0::/56?256

Data is being? **The source port field identifies the running application or service that will handle data returning to the PC. /UDP segments are encapsulated within IP packets for transport across the network./The UDP destination port number identifies the application or service on the server which will handle the data.**

During the process of forwarding traffic, what will the router do immediately after matching?switch the packet to the directly connected interface

How does the service password-encryption command enhance password security?It encrypts passwords that are stored in router or switch configuration files.

Match a statement to the related network model? peer-to-peer network[+] no dedicated servers is required/[+] client and server roles are set on a per request basis

peer-to-peer application[#] requires a specific user interface/[+] a background service is required/

Match each description to its corresponding term.? # message Encoding = the process of converting information from one format into individual pieces before being sent over the network # Message encapsulation=the process of placing one message format inside another message format

Match each description with an? 127.0.0.1 = address loopback / 240.2.6.255 = address experimentalan / 198.133.219.2 = address publica / 169.254.1.5= address link-local

Match each description with the? number of bytes a destination device can accept and process at one time = sizewindow \ used to identify missing segments of data =

numberssequence) method of managing segments of data loss = retransmission / received by a sender before transmitting more segments in a session = acknowledgement

Match the application ? TCP = FTP, HTTP , SMTP / UDP = DHCP , TFTP

Match the characteristic of the forwarding method?store-and-forward: always stores the entire frame = Target / forwarding before CRC thechecks = Target / forwarding before length frame thechecks = Target cut-through : latency lowwas = Target / frames runt forwardmay = Target / begins forwarding when the destination address is received = Target

Match the description to the IPv6 addressing component?#This part of the address is the equivalent to the host portion of an IPv4 address. = interface ID

Match the description to the IPv6 addressing component?#This part of the address is used by an organization to identify subnets = subnet ID#This part of the address is used

Match the description to the IPv6 addressing component?#This part of the address is used unsolicited incoming sessions / application filtering – prevents access by port number

Match the header field with the appropriate layer of the OSI model. (Not all options are used.)? #Layer 2= 802.2 header/FCS (Frame Check Sequence) / Destination MAC

Address# Layer 3= TTL \ Source IP Address# Layer 4=Acknowledgment Number / Destination Port Number

Match the type of threat with the cause? components (electrostatic discharge) lack of critical spare parts, poor cabling, and poor labeling = maintenance threats / temperature extremes or humidity extremes = threatenvironmental / physical damage to servers, routers, switches, cabling plant, and workstations = threathardware / voltage spikes, insufficient supply voltage (brownouts), unconditioned power (noise), and total power loss = threatelectrical

Refer to the exhibit. A company uses ? 255.255.128

Refer to the exhibit. An administrator has been given the network address?200

Refer to the exhibit. An administrator is trying to configure the switch but receives the error message that is displayed in the exhibit. What is the problem?The administrator must first enter privileged EXEC mode before issuing the command.

Refer to the exhibit. Host B?Layer 2 destination address = 00-00-0c-94-36-ab/Layer 3 destination address = 172.16.20.20/Layer 3 source address = 172.16.10.200

Refer to the exhibit. If host A sends an IP packet to host B? BB:BB:BBBB:BB:BB

Refer to the exhibit. If Host1 were to transfer a file to the server, what layers of the TCP/IP ?application, transport, Internet, and network access layers

Refer to the exhibit. If PC1 is sending a packet to PC2 and routing has been?remove the Ethernet header and configure a new Layer 2 header before sending it out S0/0/0

Refer to the exhibit. Match the network with the correct IP address and prefix? Network A = 192.168.0.0/25 / Network B = 192.168.0.128/26 / Network C = 192.168.0.192/27

Refer to the exhibit. On the basis of the output, which two statements about network connectivity are correct? (Choose two.) There are 4 hops between this device and the device at 192.168.100.1. There is connectivity between this device and the device at 192.168.100.1.

Refer to the exhibit. The switches are in their default configuration? only hosts B, C, and router R1

Refer to the exhibit. What is wrong with the displayed configuration? The untwisted length of each wire is too long.

managed?One device is attached to a physical interface. The default SVI has been configured.

Refer to the exhibit. Which protocol was responsible for building the table that is shown?ARP

Refer to the exhibit. Which two network addresses can be assigned to the network containing 10 hosts? 10.18.10.208/28/10.18.10.224/28

The global configuration command ip default-gateway 172.16.100.1 is applied to a switch? The switch can be remotely managed from a host on another network.

Three bank employees?audio conference, financial transactions, web page

Two pings were issued from a host on a local network? Security rules are applied to the default gateway device

Users are reporting longer delays in authentication and in accessing network resources during certain time periods of the week?the network performance baseline

What are proprietary protocols? **protocols developed by organizations** who have control over their definition and operation
What are the three parts of an IPv6 global unicast address? (Choose three.) **subnet ID/global routing prefix/interface ID**

What are the two most effective ways to defend against malware? **Update the operating system and other application software./Install and update antivirus software.**

What are two characteristics of IP? (Choose two.) **does not require a dedicated end-to-end connection/operates independently of the network media**

What are two characteristics shared by TCP and UDP? (Choose two.) **proper termination / low-quality cable or connectors**

What are two common causes of signal degradation when using UTP cabling? (Choose two.) **improper termination / low-quality cable or connectors**

What are two features of ARP? (Choose two.) **If a host is ready to send a packet to a local destination device and it has the IP address but not the MAC address of the destination, it generates an ARP broadcast. / If a device receiving an ARP request has the destination IPv4 address, it responds with an ARP reply.**

What are two functions that are provided by the network? **directing data packets to destination hosts on other networks / providing end devices with a unique network identifier**

What are two ICMPv6 messages that are not present in ICMP for IPv4? (Choose two.) **Neighbor Solicitation / Router Advertisement**

What are two primary responsibilities of the Ethernet MAC sublayer? (Choose two.) **accessing the media / data encapsulation**

What are two problems that can be caused by a large number of ARP request and reply messages? (Choose two.) **The ARP request is sent as a broadcast, and will flood the entire subnet./All ARP request messages must be processed by all nodes on the local network.**

What attribute of a NIC would place it at the data link layer of the OSI model? **MAC address**

What characteristic describes a DoS attack? **an attack that slows or crashes a device or network service**

What characteristic describes a Trojan horse? **malicious software or code running on an end device**

What characteristic describes a virus? **malicious software or code running on an end device**

What characteristic describes a VPN/a tunneling protocol that provides remote users with secure access into the network of an organization

What characteristic describes adware? **software that is installed on a user device and collects information about the user**

What characteristic describes an IPS? **a network device that filters access and traffic coming into a network**

What characteristic describes antispyware? **applications that protect end devices from becoming infected with malicious software**

What characteristic describes antivirus software? **applications that protect end devices from becoming infected with malicious software**

What mechanism is used by a router to prevent a received IPv4 packet from traveling endlessly on a network? **It decrements the value of the TTL field by 1 and if the result is 0, it discards the packet and sends a Time Exceeded message to the source host.**

What characteristic describes identity theft? **the use of stolen credentials to access private data**

What characteristic describes spyware? **software that is installed on a user device and collects information about the user**

What does the term "attenuation" mean in data communication? **loss of signal strength as distance increases**

What happens when the transport input ssh command is entered on the switch vty lines? **Communication between the switch and remote users is encrypted.**

What is a benefit of using cloud computing in ? **Network capabilities are extended without requiring investment in new infrastructure, personnel, or software.**

What are two statements are correct about MAC and IP? **Destination IP addresses in a packet header remain constant along the entire path to a target host./Destination and source MAC addresses have local significance and change every time a frame goes from one LAN to another.**

What is a function of the data link layer? **provides for the exchange of frames over a common local media**

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What is an advantage to using a protocol? **It encourages competition and promotes choices.**

What is one main characteristic of the data link layer? **It shields the upper layer protocol from being aware of the physical medium to be used in the communication.**

What are three characteristics of the CSMA/CD process? **A device listens and waits until the media is not busy before transmitting. / After detecting a collision, hosts can attempt to resume transmission after a random time delay has expired./All of the devices on a segment see data that passes on the network medium.**

What is the consequence of configuring a router with the ipv6 unicast? **The IPv6 enabled router interfaces begin sending ICMPv6 Router Advertisement messages.**

What is the subnet ID associated with the IPv6 address 2001:DA48:FC5:A4:3D1B::164? **2001:DA48:FC5:A4::164**

What method is used to manage contention-based access on a wireless network? **CSMA/CA**

What service is provided by BOOTP? **Legacy application that enables a diskless workstation to discover its own IP address and find a BOOTP server on the network.**

What service is provided by DHCP? **Dynamically assigns IP addresses to end and intermediary devices.**

What service is provided by DNS? **Resolves domain names, such as cisco.com, into IP addresses.**

What method is used to manage contention-based access on a wireless network? **CSMA/CA**

What service is provided by FTP? **Allows for data transfers between a client and a file server.**

What service is provided by HTTPS? **Uses encryption to secure the exchange of text, graphic images, sound, and video on the web.**

What service is provided by IM? **An application that allows real-time chatting among remote users.**

What service is provided by POP3? **Retrieves email from the server by downloading the email to the local mail application of the client.**

What service is provided by SMTP? **Allows clients to send email to a mail server and the servers to send email to other servers.**

What service is provided by TFTP? **A basic set of rules for exchanging text, graphic images, video, and other multimedia files on the web.**

What service is provided by HTTPS? **Uses encryption to secure the exchange of text, graphic images, sound, and video on the web.**

Which subnet would include the address 192.168.1.96 as a usable host address? **192.168.1.64/26**

Which switch port drops frames that fail the FCS check? **store-and-forward switching**

Which three layers of the OSI model map to the application layer of the TCP/IP model? (Choose three.) **application/session/presentation**

Which two commands can be used on a Windows host to display the routing table? **print/netstat -r**

Which two functions are performed at the LLC sublayer of the OSI Data Link Layer to facilitate Ethernet communication? (Choose two.) **enables IPv4 and IPv6 to utilize the same physical medium/places information in the Ethernet frame that identifies which network layer protocol is being encapsulated by the frame**

Which two protocols operate at the top layer of the TCP/IP protocol suite? (Choose two.) **POP/DNS**

Which two statements accurately describe an advantage or a disadvantage when deploying NAT for IPv4 in a network? (Choose two.) **NAT introduces problems for some applications that require end-to-end connectivity./NAT provides a solution to slow down the IPv4 address depletion.**

Which two statements are correct in a comparison of IPv4 and IPv6 packet headers? **The Source Address field name from IPv4 is kept in IPv6./The Time-to-Live field from IPv4 has been replaced by the Hop Limit field in IPv6**

Which two statements describe features of an IPv4 routing table on a router? **It stores information about routes derived from the active router interfaces./If a default static route is configured in the router, an entry will be included in the routing table with source code S.**

Which two statements describe how to assess traffic flow patterns and network traffic types using a protocol analyzer? (Choose two.) **Capture traffic during peak utilization times to get a good representation of the different traffic types./Perform the capture on different network segments.**

Which two traffic types use the Real-Time Transport Protocol (RTP)? (Choose two.) **video/voice**

Which type of security threat would be responsible if a spreadsheet add-on disables the local software firewall? **Trojan horse**

Which value, that is contained in an IPv4 header field? **Time-to-Live**

Which wireless technology has low-power and data rate requirements making it popular in home automation applications? **ZigBee**

Which wireless technology has low-power and low-data rate requirements making it popular in IoT environments? **Zigbee**

Why would a Layer 2 switch need an IP address? **to enable the switch to be managed remotely**