

CYB 310 Module Two Lab Worksheet

Complete this worksheet by replacing the bracketed phrases in the Response column with the relevant information.

The OSI Model		
Prompt	Response	
What HTTP message type is used to request data?	The HTTP message type used to request data is GET.	
Identify which flags are set in each of the three segments of the three-way handshake.	SYN: The first segment, used to initiate a connection, sets the SYN flag. SYN-ACK: The second segment in response sets both SYN and ACK flags. ACK: The third segment confirms the connection by setting the ACK flag.	
What command can be used on a Windows machine to view the MAC address?	The command ipconfig /all can be used on a Windows machine to view the MAC address.	



Network Troubleshooting Prompt Response _ 🗆 × Administrator: C:\Windows\system32\cmd.exe In the lab, "Troubleshooting a C:\Users\Administrator>ping 192.168.12.10 Suspected DNS issue Using CLI Pinging 192.168.12.10 with 32 bytes of data: Reply from 192.168.12.10: bytes=32 time<1ms TTL=128 Utilities," **Step 11,** type your name after the command prompt and take a screenshot of the output Ping statistics for 192.168.12.10: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms after running the nslookup command. C:\Users\Administrator>nslookup? 'nslookup?' is not recognized as an internal or external command, operable program or batch file. C:\Users\Administrator>nslookup ? Usage: nslookup [-opt ...] # interactive mode using default server nslookup [-opt ...] - server # interactive mode using 'server' nslookup [-opt ...] host # just look up 'host' using default server nslookup [-opt ...] host server # just look up 'host' using 'server' C:\Users\Administrator>nslookup 192.168.12.11 Server: w2k8r2internal1.netplus.com Address: 192.168.12.10 Name: w2k8r2interna12.netplus.com Address: 192.168.12.11 C:\Users\Administrator>

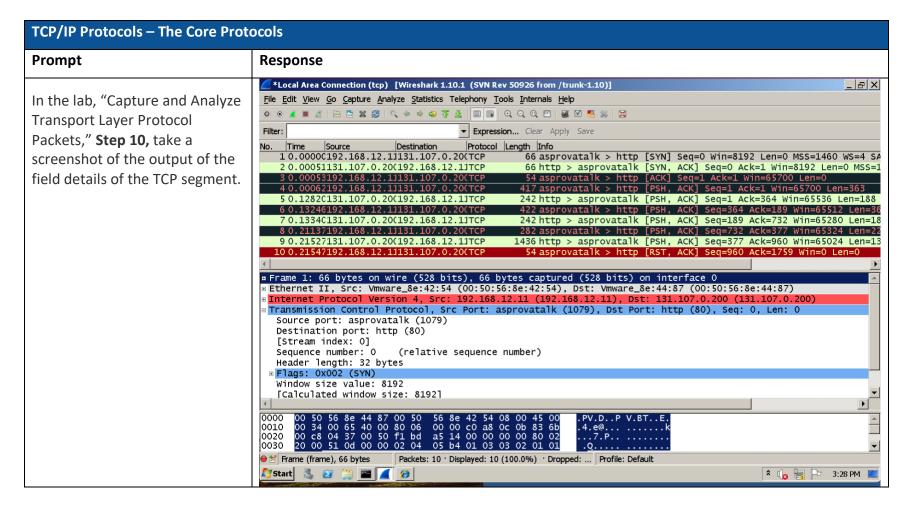


IIS7 flag4:465511 In the lab, "Troubleshooting a i www.isp.com ▼ C Q Search Suspected DNS issue Using CLI Utilities," **Step 14,** take a screenshot Welcome of the webpage after correcting the Bienvenido Bem-vindo URL. Willkommen Vítejte FLAG5:545561 Bienvenue Tervetuloa 歡迎 ברוכים הבאים Velkommen VELKOMEN Benvenuto 欢迎 Welkom Witamy internet information services Välkommen مرحبا Hoş Geldiniz 환영합니다 Üdvözöljük Καλώς ορίσατε Добро пожаловать The utility **ipconfig** /all can be used to find out detailed information including the IP address, What utility can be used to find out subnet mask, and default gateway configured on a computer. the IP address, subnet mask, and default gateway configured on a computer? **ipconfig/release**: This command releases the IP address assigned to the computer. What is the function of the ipconfig/renew: This command renews the IP address, allowing the computer to request a ipconfig/release and the new IP address from the DHCP server. ipconfig/renew commands?



What type of devices would be better served to have static IP configuration?	Devices that require constant network availability and accessibility, such as servers, network printers, or other critical infrastructure components, would be better served to have static IP configuration.
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Capturing from Local Area Connection (udp) [Wireshark 1.10.1 (SVN Rev 50926 from /trunk-1.10)] _ & × In the lab, "Capture and Analyze File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help a UDP Datagram," Step 8, take a 📵 🔞 🌋 👅 💋 | 🚍 🚵 💥 | 🔍 🌳 🌳 🚰 🛂 | | 🗒 🖼 | 📵 🥂 🔀 🎉 | 💢 screenshot of the output of the Filter: ▼ Expression... Clear Apply Save | Protocol | Length | Info | DHCPv6 | 134 Solicit XID: 0x8c3le9 CID: 0001000118d2a7350050569c273b User Datagram Protocol field Time | Source | Destination | 1 0.00000000 fe80::91a4:11e2:a43ff02::1:2 2 1.99998400 fe80::91a4:11e2:a43ff02::1:2 134 Solicit XID: 0x8c31e9 CID: 0001000118d2a7350050569c273b details. 3 2.10582100 fe80::dcb:9b44:9f30ff02::1:2 157 Solicit XID: 0x320813 CID: 0001000118d2a7380050569c273d 4 2.47138800 fe80::c4a:b277:ee0fff02::1:2 DHCPV6 156 Solicit XID: 0x90d24c CID: 0001000118d2a7870050569c2739 DHCPv6 157 Solicit XID: 0x320813 CID: 0001000118d2a7380050569c273d 5 7.80473300 fe80::dcb:9b44:9f30ff02::1:2 6 8.17018400 fe80::c4a:b277:ee0fff02::1:2 156 Solicit XID: 0x90d24c CID: 0001000118d2a7870050569c2739 7 9.81704300 fe80::dcb:9b44:9f30ff02::1:2 157 Solicit XID: 0x320813 CID: 0001000118d2a7380050569c273d 8 10.1826790 fe80::c4a:b277:ee0fff02::1:2 DHCPV6 156 Solicit XID: 0x90d24c CID: 0001000118d2a7870050569c2739 9 10.6869590 fe80::91a4:11e2:a43ff02::1:2 DHCPV6 134 solicit XID: 0x8c31e9 CID: 0001000118d2a7350050569c273b 10 13.8262930 fe80::dcb:9b44:9f30ff02::1:2 157 Solicit XID: 0x320813 CID: 0001000118d2a7380050569c273d ☐ Frame 1: 134 bytes on wire (1072 bits), 134 bytes captured (1072 bits) on interface 0 ☐ Ethernet II, Src: Vmware_8e:20:ae (00:50:56:8e:20:ae), Dst: IPV6mcast_00:01:00:02 (33:33:00:01:00:02) ⊞ Internet Protocol Version 6, Src: fe80::91a4:11e2:a43c:6d34 (fe80::91a4:11e2:a43c:6d34), Dst: ff02::1:2 (ff02::1:2) □ User Datagram Protocol, Src Port: dhcpv6-client (546), Dst Port: dhcpv6-server (547) Source port: dhcpv6-client (546) Destination port: dhcpv6-server (547) Length: 80 ⊕ Checksum: 0x944c [validation disabled] Profile: Default Packets: 20 · Displayed: 20 (100.0%) 😂 Start 🕍 🔼 🍃 🖼 🚄 🌣 👍 🟳 🐂 3:32 PM 📜 An ARP request is a broadcast packet used to request the MAC address of a host on the local What type of packet is an ARP network segment. request?



What type of packet is an ARP reply?	An ARP reply is a unicast packet sent in response to an ARP request, providing the requested MAC address.
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