

- 8) WHAT IS THE FULL PATH OF DocumentRoot DIRECTORY ON YOUR WINDOWS 10 VM?
 - C:\xampp\htdocs\index.html
- 9) WHAT IS THE IP ADDRESS OF YOUR HOST COMPUTER (the lab computer), and HOW DID YOU FIND THIS INFORMATION?

13) IN THE TCP THREE-WAY HANDSHAKE THAT BEGINS THE EXCHANGE OF THIS WEB PAGE, WHICH IP ADDRESS INITIATES COMMUNICATION (sends the first packet)? Hence, we will refer to this as packet 0.

(Hint: The TCP Three-Way Handshake can be identified from the TCP Flags used in the first 2 packets... SYN, SYN/ACK)

- 192.168.56.1
- 14) WHAT ARE THE INITIALTCP SEQUENCE NUMBERS USED BY EACH SIDE OF THE WEB PAGE EXCHANGE?
 - 0 and 1
- 15) HOW MANY PACKETS INTO THE CONVERSATION (how many packets after "packet 0") IS THE PACKET WHICH CONTAINS THE TEXT OF THE WEB PAGE index.html?
 - seven
- 16) a. WHAT IS THE FIRST LINE OF THE HTTP HEADER IN THE PACKET WHICH CONTAINS THE TEXT OF THE WEB PAGE index.html?
 - Hypertext Transfer Protocol
 > HTTP/1.1 200 OK\r\n
 Date: Thu, 09 Jul 2020 19:48:23 GMT\r\n
- b. DOES THIS LINE OF THE HEADER INDICATE SUCCESS OR FAILURE?
 - success
- 17) a. HOW MANY PACKETS INTO THE CONVERSATION CONVERSATION (how many packets after "packet 0") IS THE PACKET WHICH CONTAINS THE GET REQUEST FROM THE Host Computer TO THE Windows 10 VM?
 - nine
- b. WHAT IS THE FIRST LINE OF THE GET REQUEST HTTP HEADER (starts with the word "GET")?
 - Hypertext Transfer Protocol
 > GET /favicon.ico HTTP/1.1\r\n
 Host: 192.168.56.101\r\n

- c. WHAT TEXT IS IN THE "User-Agent" FIELD OF THIS HEADER? (What do you think this User-Agent field indicates?)
 - User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.116 Safari/537.36\r\n
 - This tells you what os and web browser is used to view the HTML
- 18) WHICH SIDE (Host Computer or Windows 10 VM) IS THE FIRST TO SIGNAL AN END TO THE CONVERSATION (in other words, sends the TCP Fin flag)?
 - Windows VM signals first to end the conversation. IP 192.168.56.101
- 19) WHAT ARE THE TCP FLAGS OF THE LAST PACKET SENT IN THE CONVERSATION? WHICH COMPUTER (Host or VM) SENDS THIS PACKET?

26 5.406635 192.168.56.1 192.168.56.101 TCP 60 62062 → 80 [ACK] Seq=774 Ack=31625 Win=2102272 ...

20) NOW THAT THE Windows 10 VM IS ON THE "INTERNAL NETWORKING," OPEN A BROWSER INSIDE THE VM AND ACCESS http://www.csun.edu

DOES THIS SUCCEED? WHY OR WHY NOT?

• It will not work because there is no route from the VM to the internet.