

**SI110 Introduction to Cyber Security AY12S
Technical Foundations**

Name: _____

Alpha _____

Hand in a stapled, printed copy with your answers.

Homework: /SI110/The Cyber Battlefield/Networks & Protocols 3 & 4

1. You need to know that port 80 is for HTTP traffic. Otherwise you do not need to memorize the ports associated with different services. What you do need to memorize, however, is what protocols go with what services go with what tools from the table in your notes. So fill in the rest of this table:

Protocol	Service	Tool
HTTP		
	Secure remote shell	
		WinSCP
	Get assigned an IP Address	Client built-in to Windows
SMB		
	Secure web traffic	
		rdesktop (Unix client)

2. What is your IP Address when you are in your room in Bancroft Hall? You didn't set your laptop's IP address, so how did it get one?

3. Suppose ITSD had a program that examined every packet that went in or out of the Academy. This program looked in every packet for the words hack, and hacking, and if such a packet was found, the MID who was sending or receiving the packet would be fried. Explain why you in danger of being fried if you visited a website about hacking at <http://innocuous.org>, but would not at <https://innocuous.org>.

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4. How could you check whether or not your laptop is running a webserver?

5. Suppose you gave a `netstat -a` command on your own laptop, and saw that you were listening on TCP port 22. Why would this not make any sense? Hint: it would similarly not make any sense to find that rona was listening on port 3389.