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CMPT 220L-200-17S

February 9, 2017

Project Proposal- Port Scanner

Those in the field of cybersecurity have to know their enemy's trade better than they themselves do. One of the most prominent tactics used by hackers is looking for vulnerable open ports in a system and using it to send malicious programs to a user. However, by learning to create one's own port scanner, one can also learn how to protect one's system against it. Thus, I will develop a port scanner to train my cybersecurity skills. I believe this will be an insightful exercise in penetration testing. By choosing this project, I also hope to become more familiar with the networking aspects of coding, as I know little about how to perform these kinds of tasks. A port scanner, however, is by its nature a malicious tool.

Despite my intentions, a port scanner can be misused. I understand that if I were to use it to interfere with any of the college's or any student's systems, that there would be serious ramifications. Thus, I do not intend to misuse the opportunity afforded to me in this project. I plan to create this scanner for the sole purpose of improving both my coding and cybersecurity skills.