

# Homework 8

due November 14, 2022

## Problem 1:

Install Nmap / Zenmap. Nmap was a very useful application for the hacker some twenty years ago, but it can still be used within a network. I assume that you have administrative and legal rights on a computer, since security people are not very amused by security-related homeworks. It is not known to be dangerous if you install directly from the website. Use this to find the open tcp port at mscs.mu.edu. Use the well-known port assignments to find the tcp-services currently listening there.

Provide a screen shot of the output of Zenmap and a list of services associated with the open TCP ports.

## Problem 2:

Install wireshark on your system. Given the provided capture file, find the packets belonging to the three-way handshake and the breakup. The protocol used was ssh to mscs.mu.edu. To find packets, you need to learn and use capture filters. The ones you need are in the wireshark capture filter drop-down menu.

Provide screen captures of the packets.