

# **Computer Engineering 4DN4**

## **Laboratory 1**

### **Installation Update for Windows**

To do the lab under Windows you need to install the following programs/drivers: WireShark, Nmap (with Ncat), Npcap or WinPcap (packet capture library) and Windump.

We have found that depending on the installation order, the WinPcap driver may be uninstalled, which will prevent Windump from running. If you try to run Windump and it exits or crashes immediately, this is probably what has happened.

This may happen if you install WinPcap (for Windump) first, then install Nmap/WireShark later. During the install, the installer will also try to install Npcap and a window such as the one shown below may pop up. When this happens, make sure that you uncheck the box shown, otherwise the installer will proceed to uninstall your WinPcap driver. One way to avoid this issue is to install WinPcap last, as described below.

Here is an installation order that should work:

1. Install WireShark (<https://www.wireshark.org/download.html>). Make sure that the check-box is unset so that the Npcap driver is not installed.
2. Install nmap (which includes Ncat) from <https://nmap.org/download>. Make sure that the check-box is unset so that the Npcap driver is not installed.
3. If you happen to have installed the Npcap driver in the above steps, you can go to Windows add/remove programs and uninstall it, rather than starting over.
4. Install WinPcap (<https://www.winpcap.org>). Use the default older driver. This install will not happen if you have already installed an Npcap driver and you will have to remove it.
5. Install windump (<https://www.winpcap.org/windump/default.htm>)
6. Check that WireShark, nmap and windump all work.

