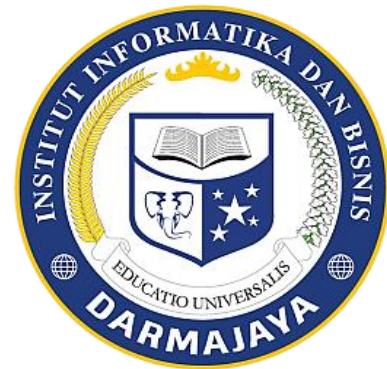


*Bahan Ajar*

## Modul Praktikum

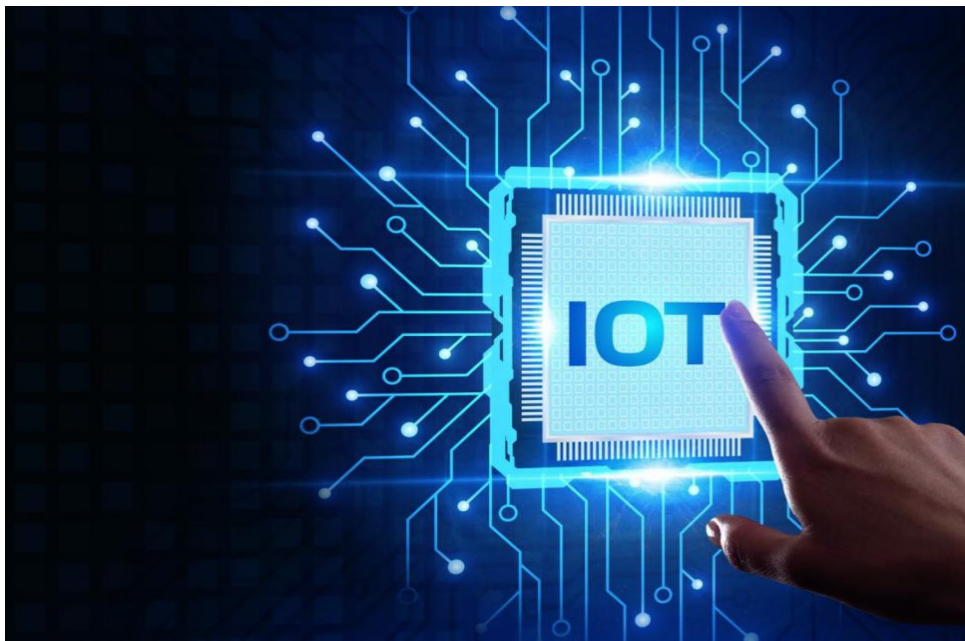
# INTERNET of THINGS (IoT Security)

Kode Matakuliah: SKO21431



Penyusun:

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**PROGRAM STUDI SISTEM KOMPUTER  
FAKULTAS ILMU KOMPUTER  
INSTITUT INFORMATIKA DAN BISNIS DARMAJAYA  
2023**

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# Modul 4

## Wireshark Installation (Windows)

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### System Requirments:

#### WINDOWS:

1. The Universal C Runtime. This is included with Windows 10 and Windows Server 2019 and is installed automatically on earlier versions if Microsoft Windows Update is enabled. Otherwise you must install KB2999226 or KB3118401.
2. Any modern 64-bit Intel or Arm processor.
3. 500 MB available RAM. Larger capture files require more RAM.
4. 500 MB available disk space. Capture files require additional disk space.
5. Any modern display. 1280 × 1024 or higher resolution is recommended. Wireshark will make use of HiDPI or Retina resolutions if available. Power users will find multiple monitors useful.
6. A supported network card for capturing:
7. Ethernet. Any card supported by Windows should work. See the wiki pages on Ethernet capture and offloading for issues that may affect your environment.
8. 802.11. See the Wireshark wiki page. Capturing raw 802.11 information may be difficult without special equipment.
9. Other <https://gitlab.com/wireshark/wireshark/-/wikis/CaptureSetup/NetworkMediaModuleESP8266> See

### How to Download Wireshark for Windows 10 (or Windows Server)

1. Head over to <https://www.wireshark.org/download.html> and click on the appropriate installer for your operating system (Windows 10 64-bit in this example, would also apply to Windows Server).
2. Download Wireshark

## Download Wireshark

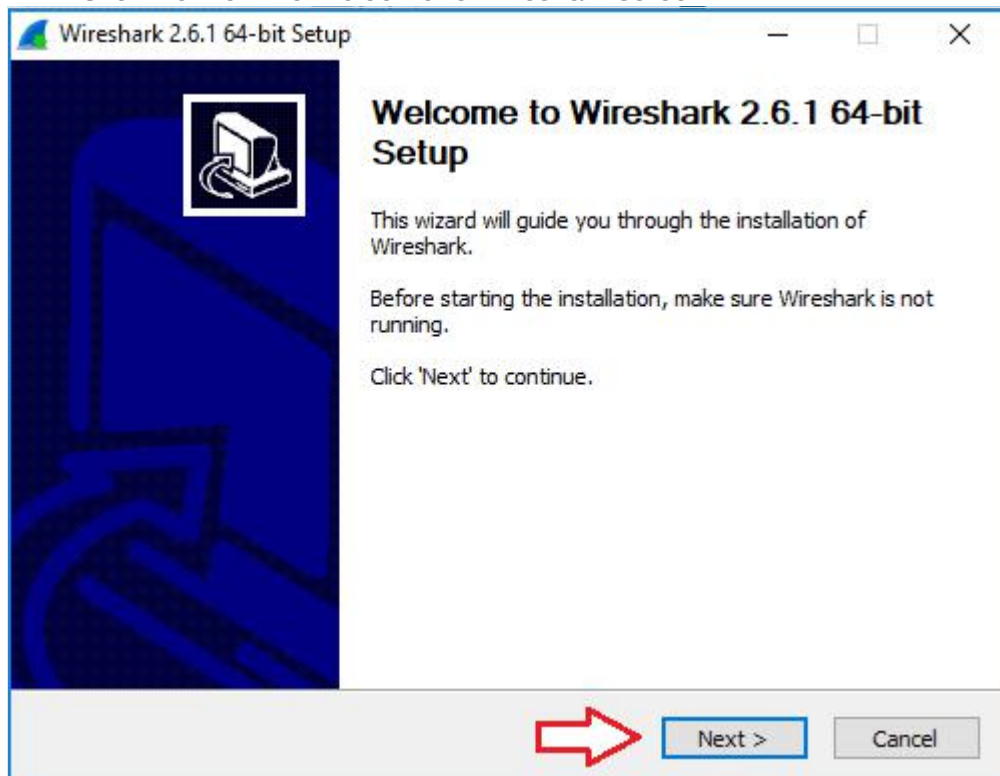
The current stable release of Wireshark is 2.6.1. It supersedes all previous releases. You can also download the latest development release (2.5.1) and documentation.



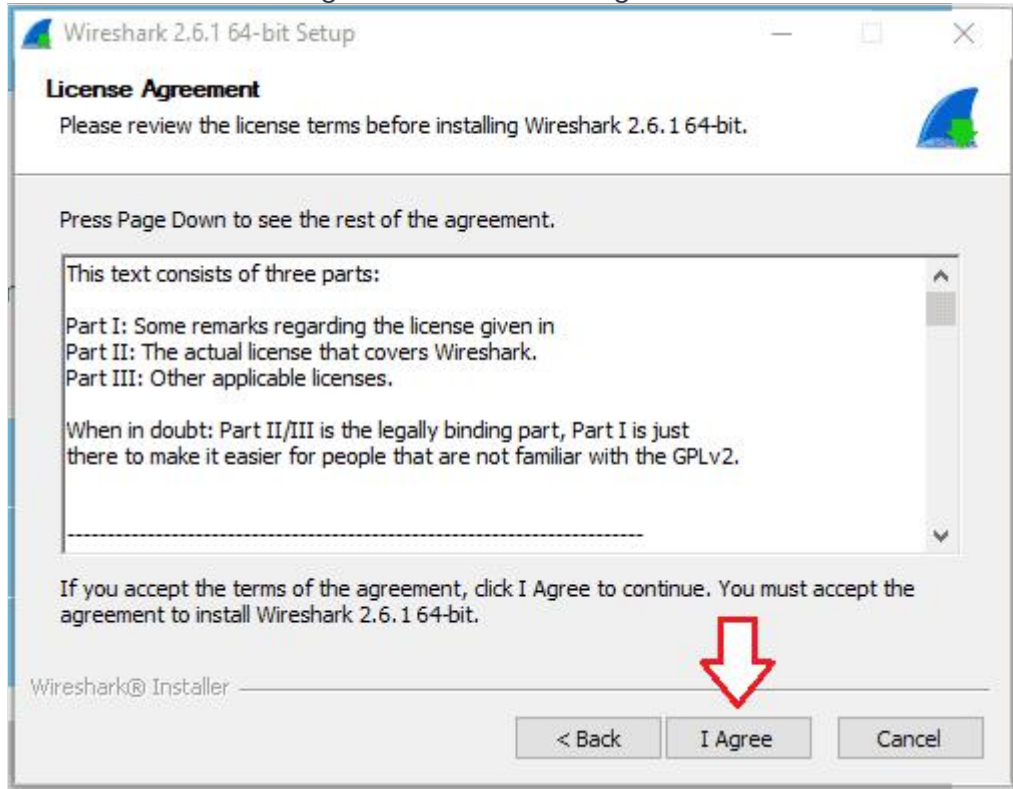
3. Note that a Wireshark-win64-2.6.1.exe file (file name as of July 2018) will be saved to your default downloads location.

How to Install Wireshark for Windows 10 (or Windows Server)

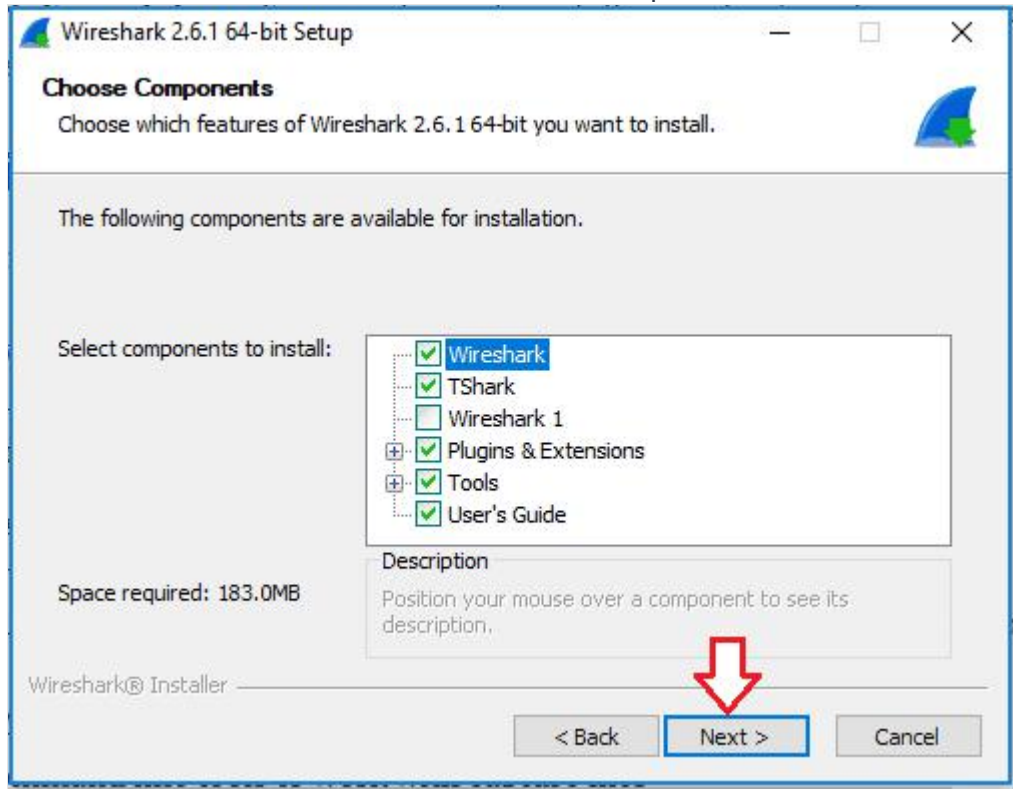
1. Run the exe installer that was downloaded.
2. Click Next on the Welcome to Wireshark screen.



3. Read the license agreement and click I Agree.

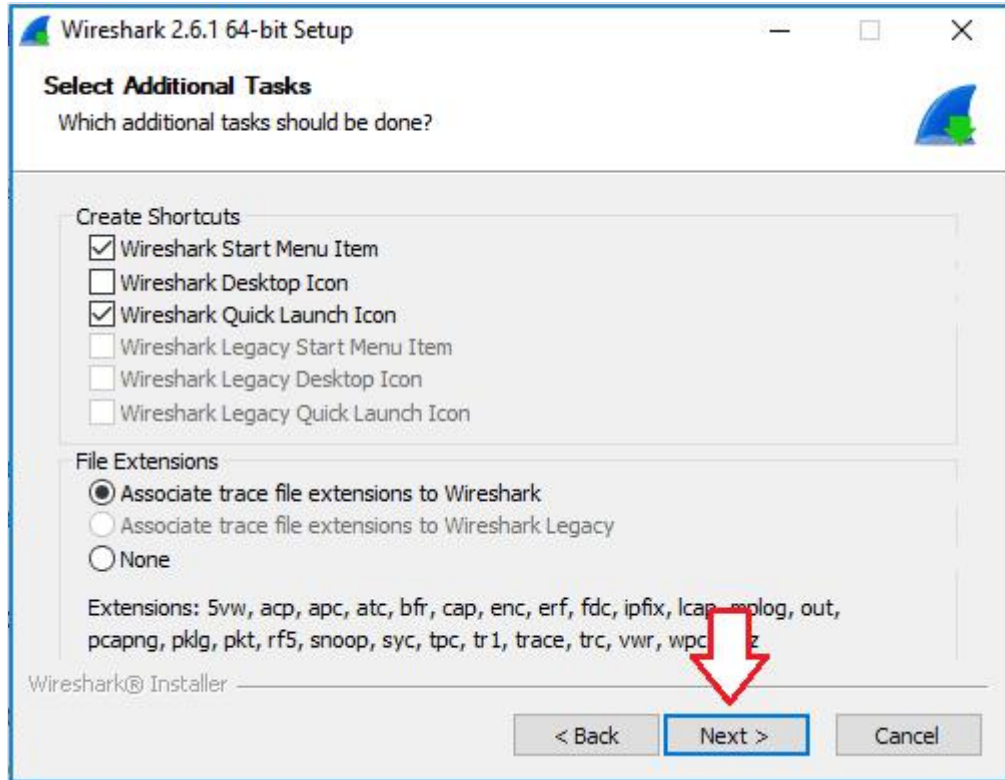


4. At the Choose Components screen leave the defaults checked and click Next. You can read more about the different components [here](#).

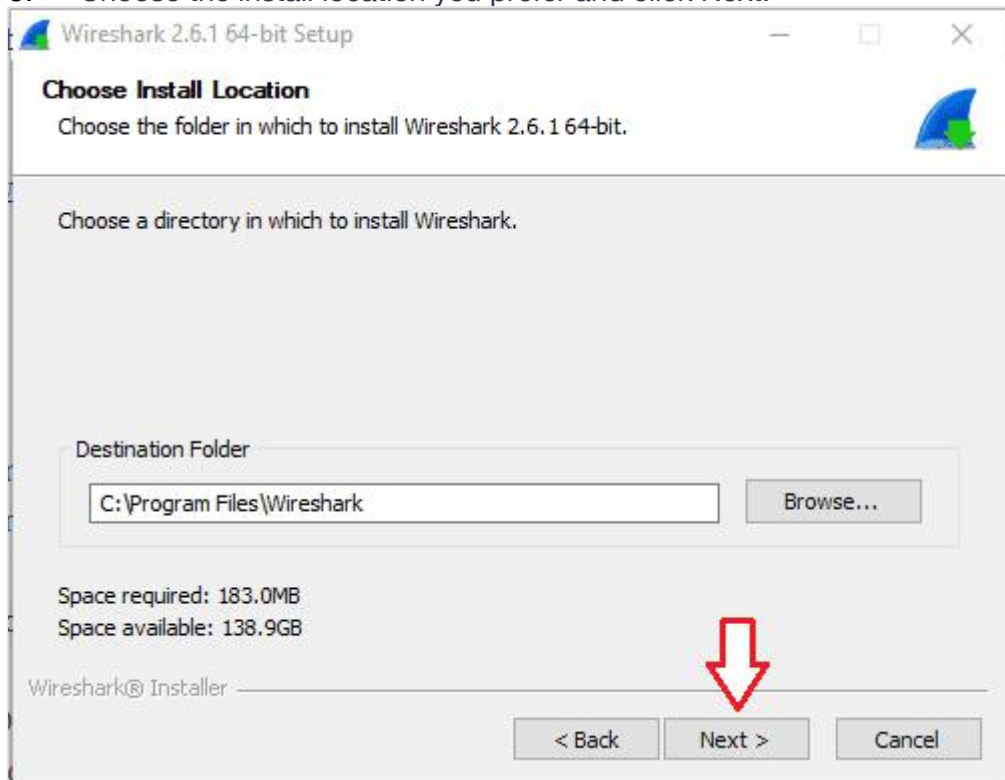


5. At the Select Additional Tasks screen choose your preferred shortcuts and leave the radio button for “associate trace file extensions to Wireshark”

selected. Click Next.

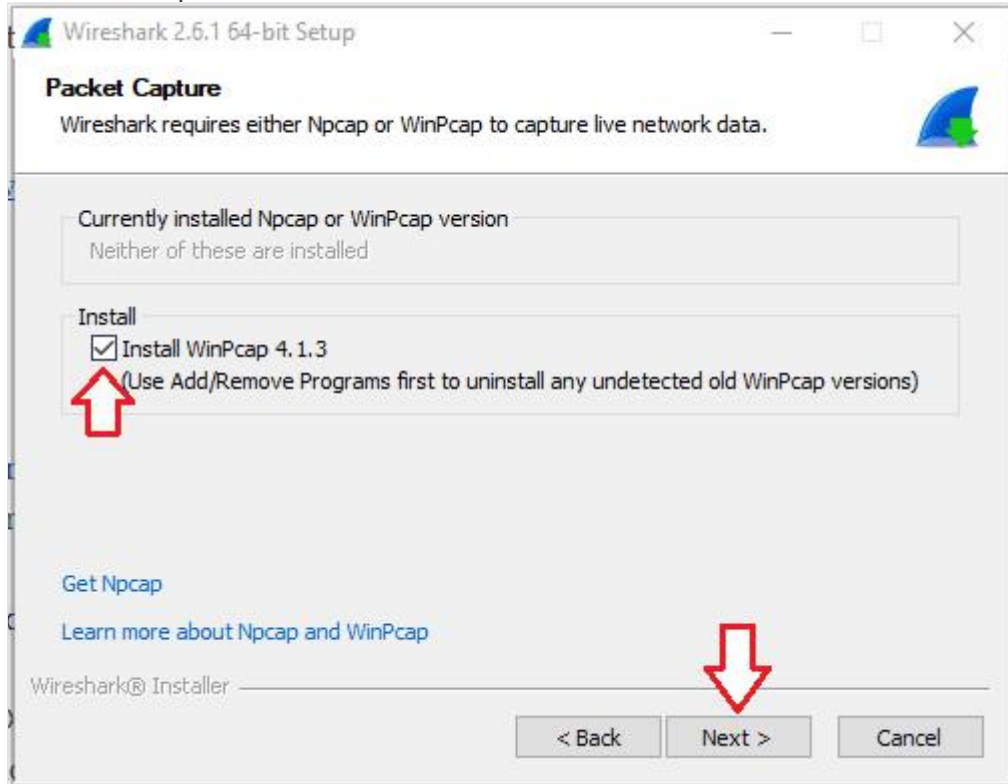


6. Choose the install location you prefer and click Next.



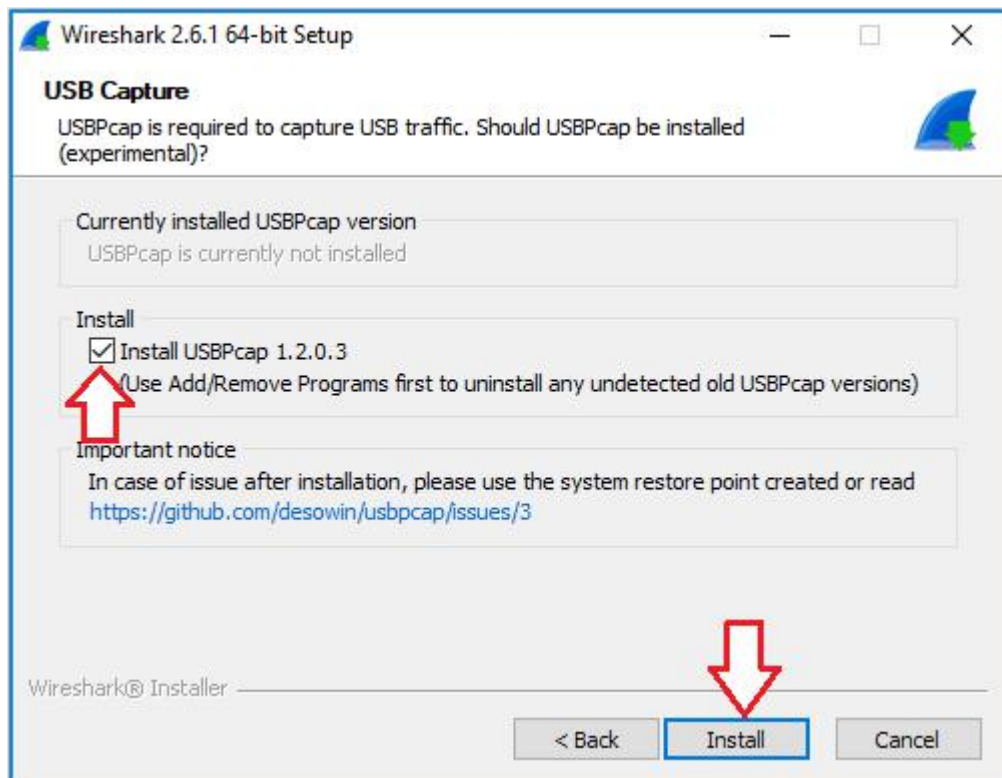
7. At the Packet Capture page make sure Install WinPcap 4.1.3 is selected. You need this to capture traffic with Wireshark. Without it you can still view

Wireshark capture files. Click Next.

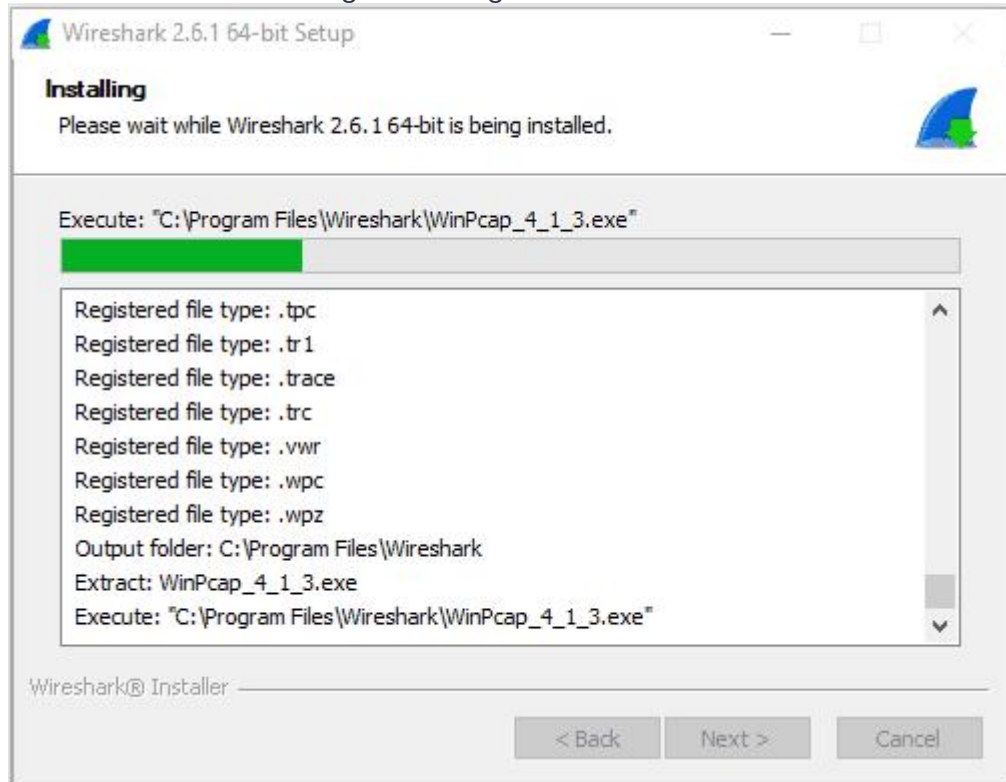


8. At the USB Capture page you can choose to Install USBPcap. Check the box next to Install USBPcap 1.2.0.3 if you desire to capture raw usb traffic as well (such as from a USB to RJ45 Ethernet adapter). Click Install.

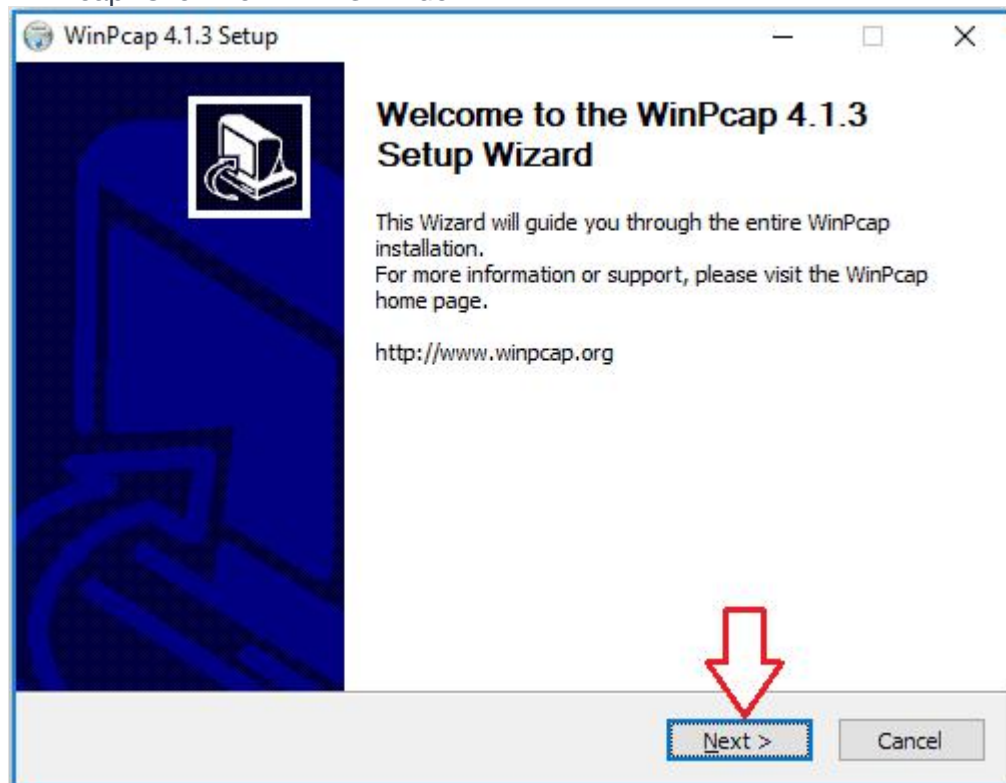
9.



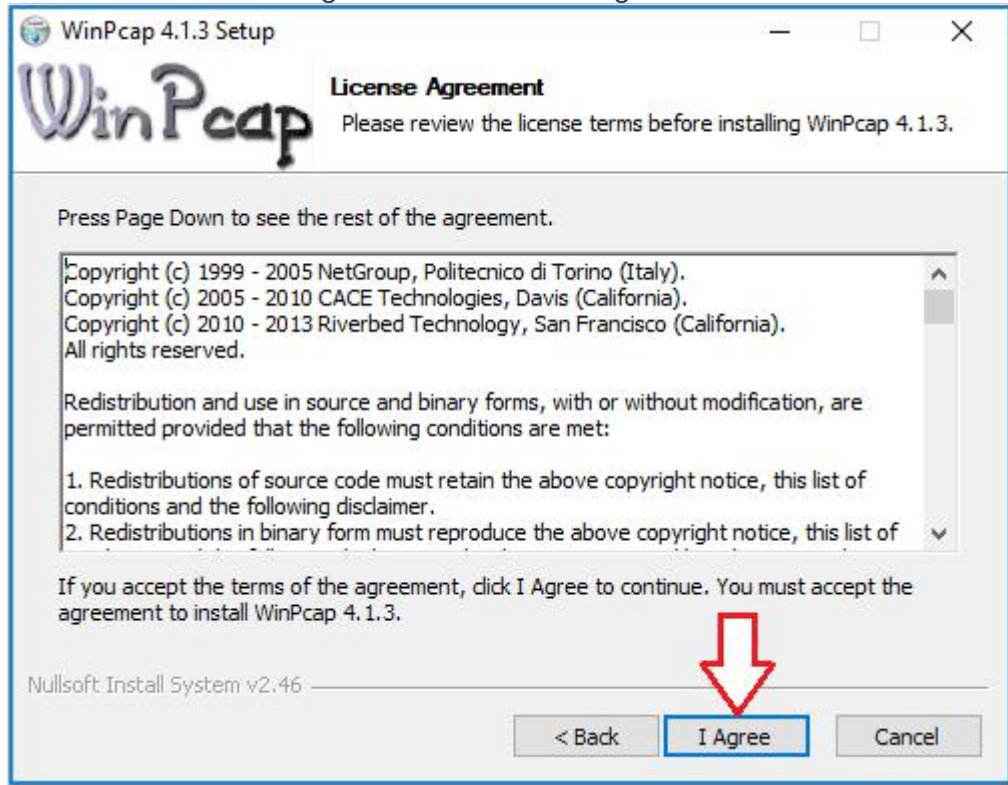
10. The software will begin installing.



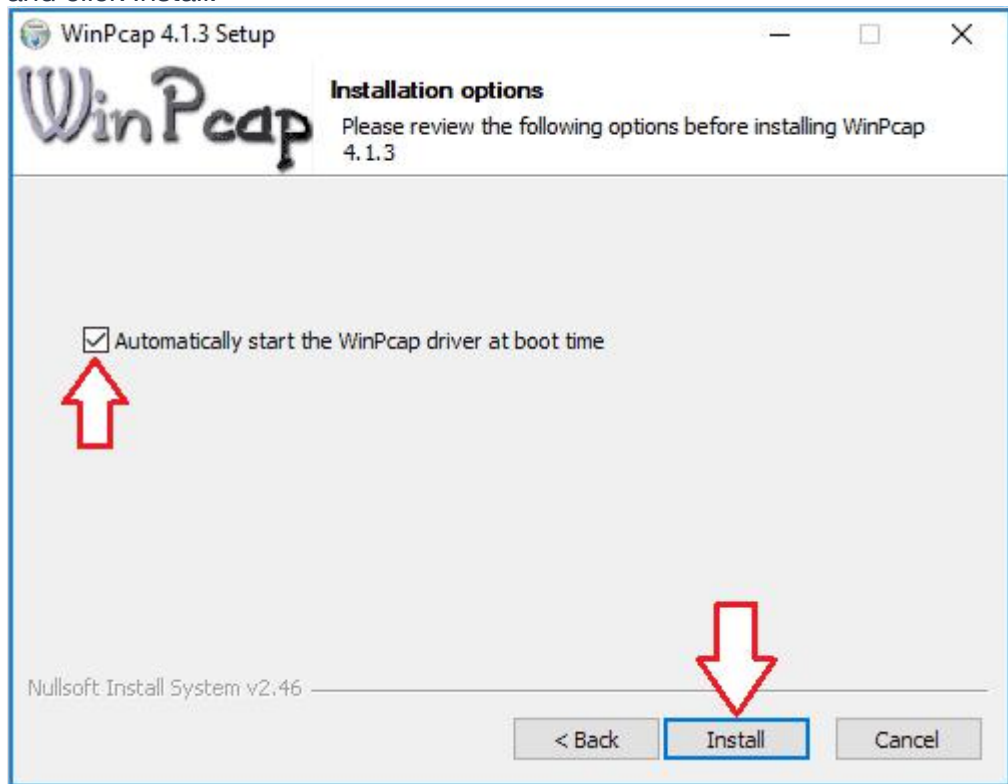
11. Eventually the installer will pause at "Execute: "C:\Program Files\Wireshark\WinPcap\_4\_1\_3.exe" and launch a new installer window for WinPcap. Click Next in this window.



12. Read the license agreement and click I Agree.

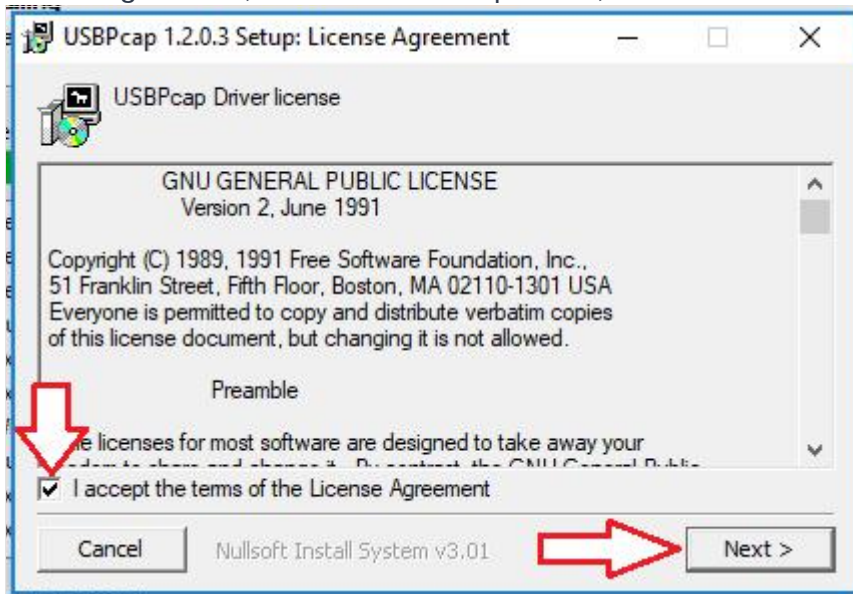


13. Make sure the check box is checked next to “Automatically start the WinPcap driver at boot time” unless you have a good reason for disabling this and click Install.

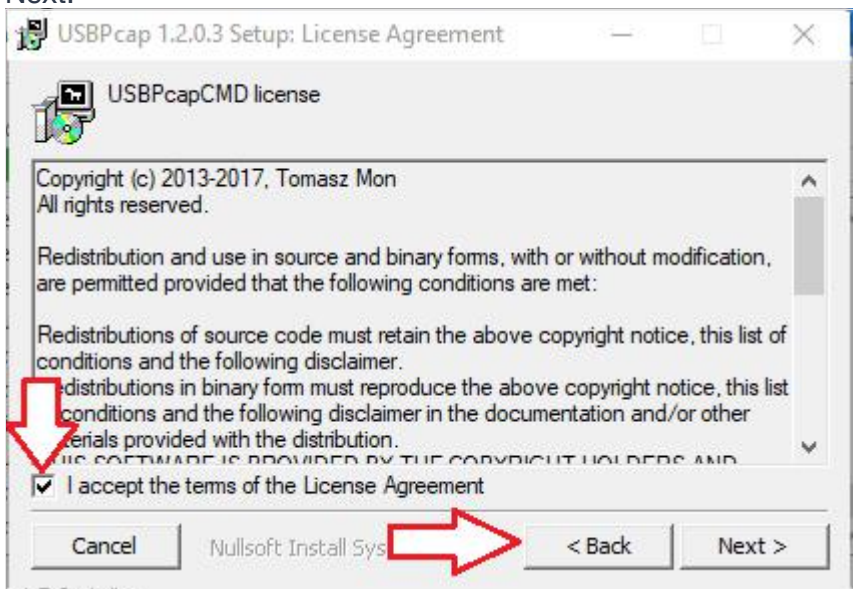


14. The install will begin and eventually complete. Click Finish.

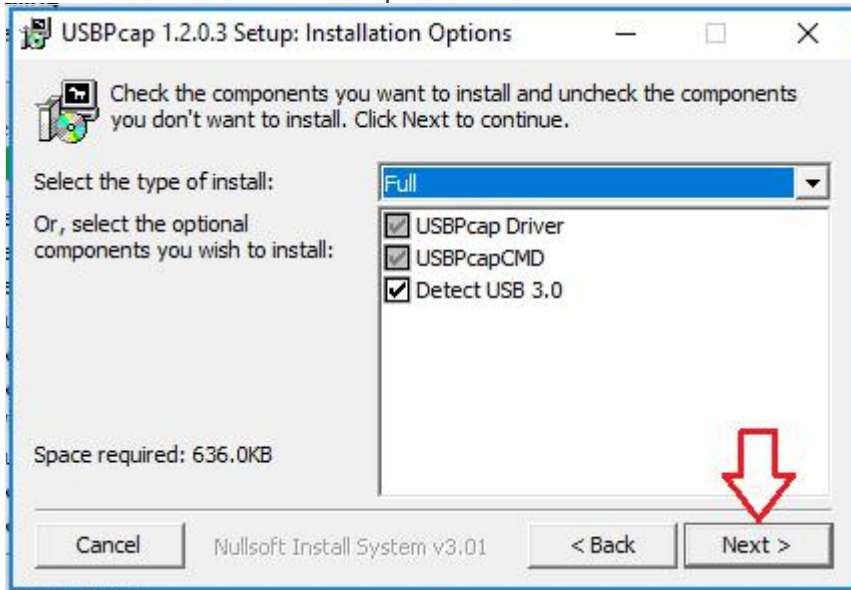
15. Next the installer for USBPcap will launch. Read the USBPcap Driver license agreement, check the “I accept” box, and click Next.



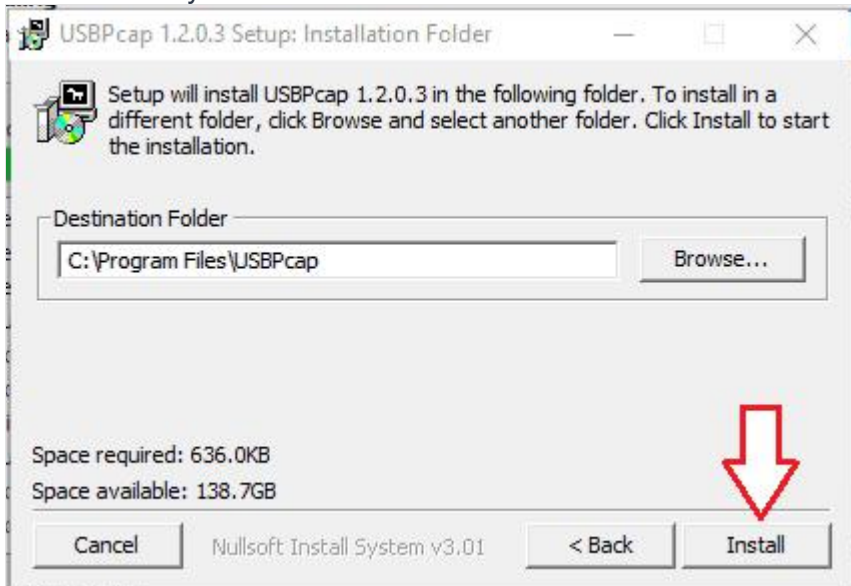
16. Read the USBPcapCMD license, check the “I accept” box, and click Next.



17. Leave the Installation Options set to Full and click Next.

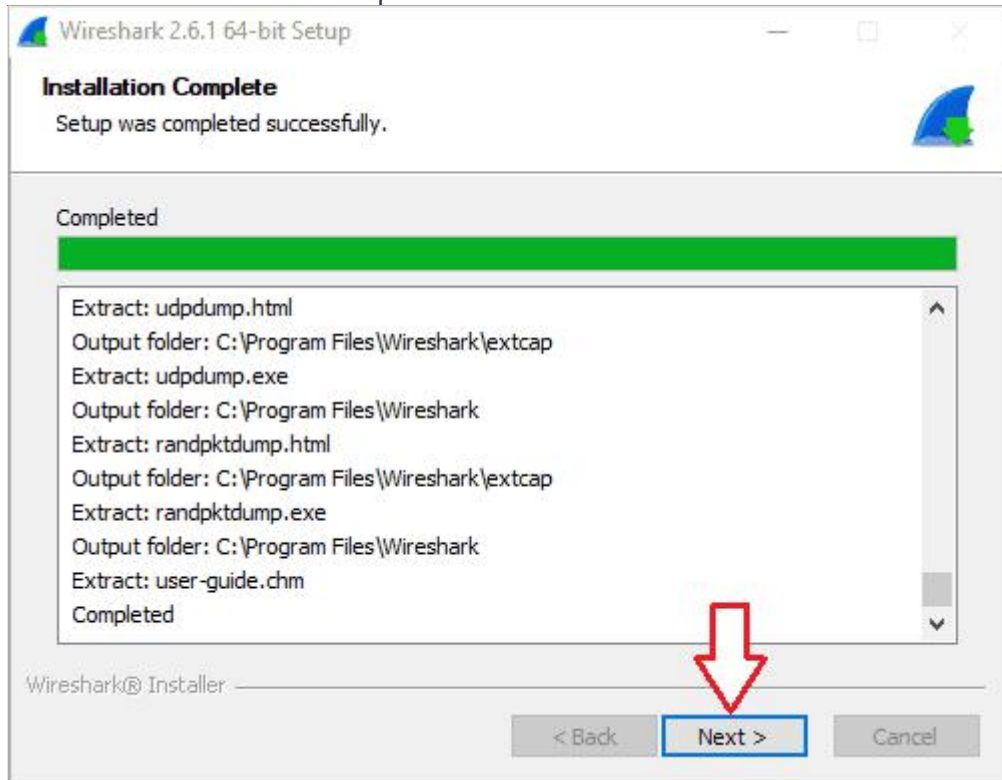


18. Choose your Installation Folder and click Install. The install will begin.



19. When the USBpcap install finishes click close and the Wireshark install will continue.

20. At the Installation Complete screen click Next.



21. Wireshark will now ask to reboot your machine to complete installation. You can either choose to reboot now or manually reboot later. You will not be able to run packet captures until you reboot your machine. I suggest rebooting right away.



Once your machine has rebooted you should find the Wireshark shortcuts in the locations you specified in the install. For this example the shortcut was found in the Start Menu.

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## JOBSHEET 4

Lakukan instalasi wireshark jelaskan tahapan, hasil instalasi dan analisis nya.

LAPORAN HASIL PERCOBAAN: