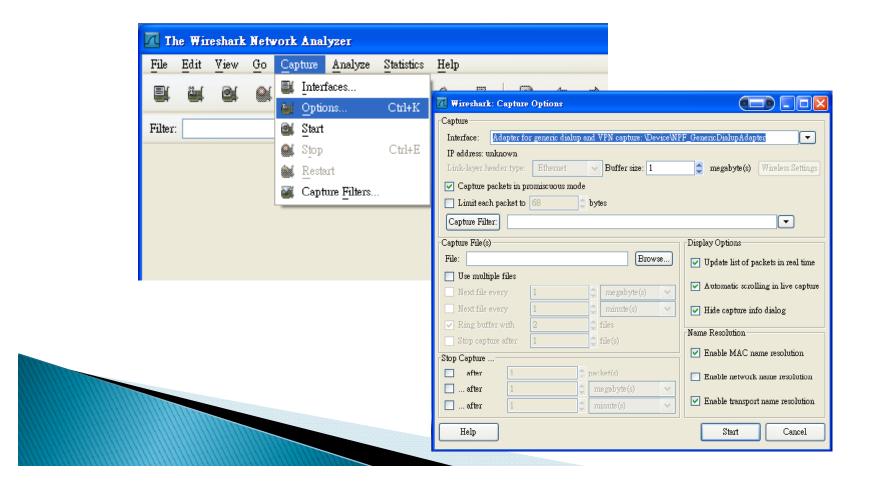
Wireshark(Ethereal)

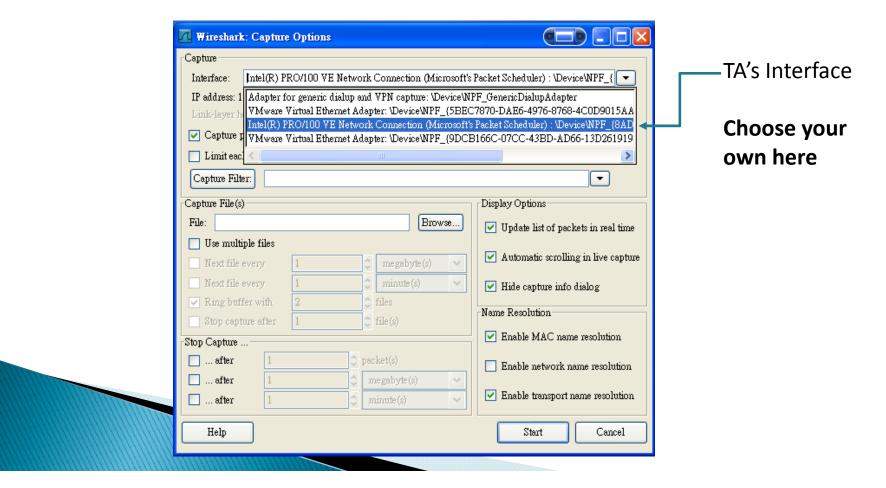
Wireshark(Ethereal)

- Wireshark is previously known as Ethereal. It switched name in May 2006 due to trademark issues.
- Step 1.
 - Download and install wireshark from website(sourceforge)
 - http://www.wireshark.org/download.html
 - Choose "Stable Release 1.0.6"

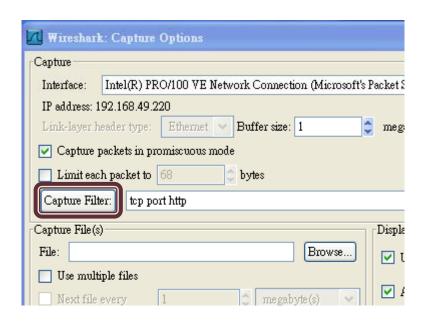
- Step 2.
 - Start Wireshark, select menu Capture->Options



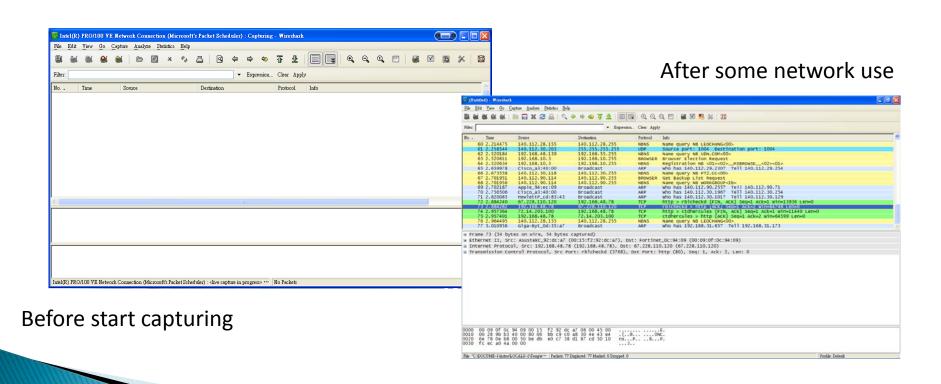
- Step 3.
 - Choose your network interface.



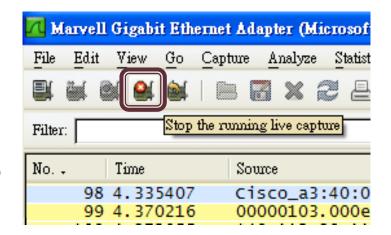
- Step 4.
 - Seletct Capture Filter (more on this later)



- Step 5.
 - Click start, and use your computer as usual



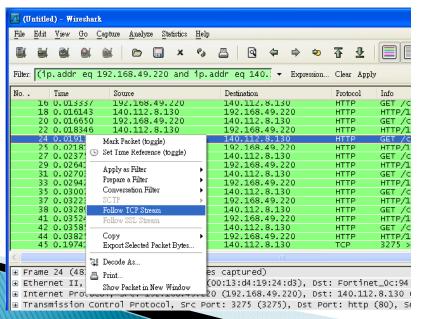
- Step 6.
 - After 5 minutes, click "stop the running live capture"



 Now you'll have A LOT OF packets, with their time, source and dest. IP, protocol (may be in app., transport, or link layer), etc.

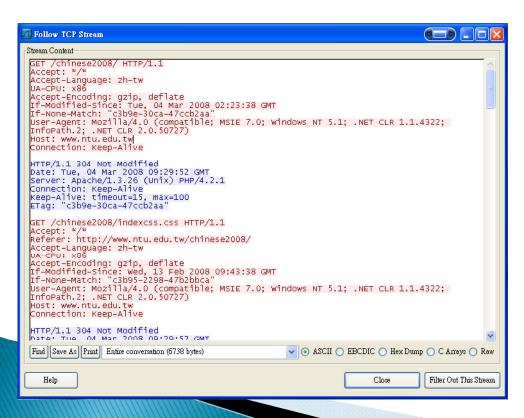


- Step 7.
 - You can type filter string into the "Filter:" box
 - E.g. "http" can filter out all packets which are not HTTP packet
 - You can right click on a TCP packet, and use "Follow TCP Stream" to trace this TCP stream



"Follow TCP stream" shows packets in sequence and the way that the application layer sees it.

- Step 8.
 - Now you can see detailed information of this TCP stream



The stream content is displayed in the same sequence as it appeared on the network.

Traffic from A to B is marked in red, while traffic from B to A is marked in blue.

Reference/FAQ

- http://www.wireshark.org/
- You may see lots of packet which is marked "incorrect TCP checksum"
 - Here this DOES NOT mean that the packets are corrupted. You can ignore this error, or see following page to know why this happening, and work around it.
 - http://www.wireshark.org/faq.html#q11.1

Reference/FAQ

- 2 types of filters:
 - Capture filter http://wiki.wireshark.org/CaptureFilters
 - Display filter
 http://wiki.wireshark.org/DisplayFilters