## **Task 1: Windows Memory Acquisition**

Step 1: Tool Setup



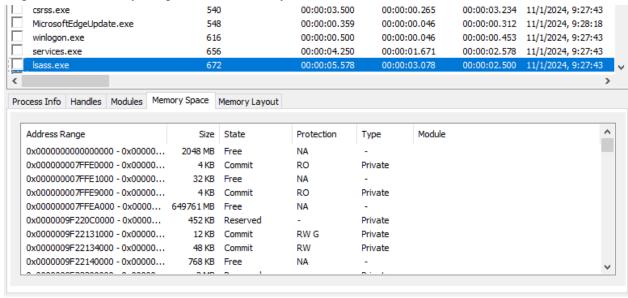
Downloaded executable file.

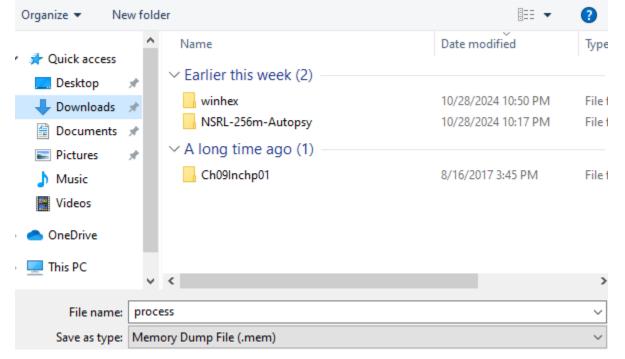
Step 2: Acquire Live Memory

```
Administrator: Command Prompt
operable program or batch file.
c:\Users\jessica_win\Downloads>winpmem_mini_x64_rc2.exe_mem.raw
WinPmem64
Extracting driver to C:\Users\JESSIC~1\AppData\Local\Temp\pme3F9E.tmp
Driver Unloaded.
Loaded Driver C:\Users\JESSIC~1\AppData\Local\Temp\pme3F9E.tmp.
Deleting C:\Users\JESSIC~1\AppData\Local\Temp\pme3F9E.tmp
The system time is: 16:40:36
Will generate a RAW image
- buffer size : 0x1000
CR3: 0x00001AA002
3 memory ranges:
Start 0x00001000 - Length 0x0009E000
Start 0x00100000 - Length 0x00002000
Start 0x00103000 - Length 0x7FEED000
max_physical_memory_ 0x7fff0000
Acquitision mode PTE Remapping
Padding from 0x00000000 to 0x00001000
pad
- length: 0x1000
00% 0x000000000 .
copy_memory
- start: 0x1000
 - end: 0x9f000
00% 0x00001000 .
Padding from 0x0009F000 to 0x00100000
pad
```

Successfully ran command.

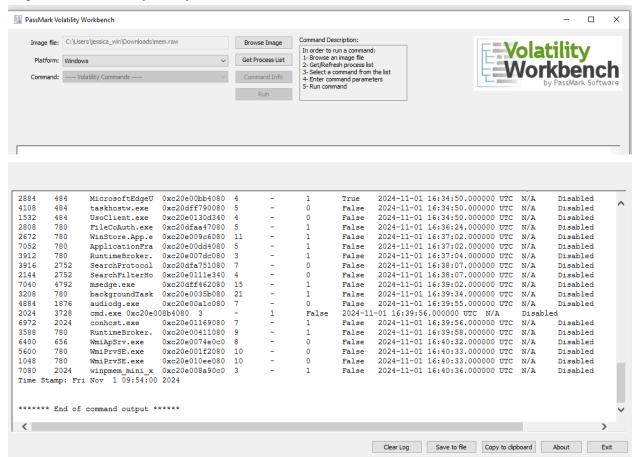
Step 3: Live Memory Acquisition and Analysis





Successfully dumped onto disk.

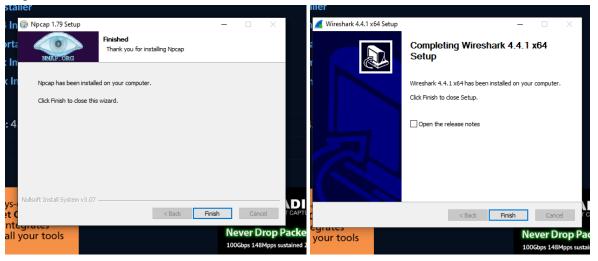
Step 4: Static Memory Analysis



Successfully analyzed the mem.raw file.

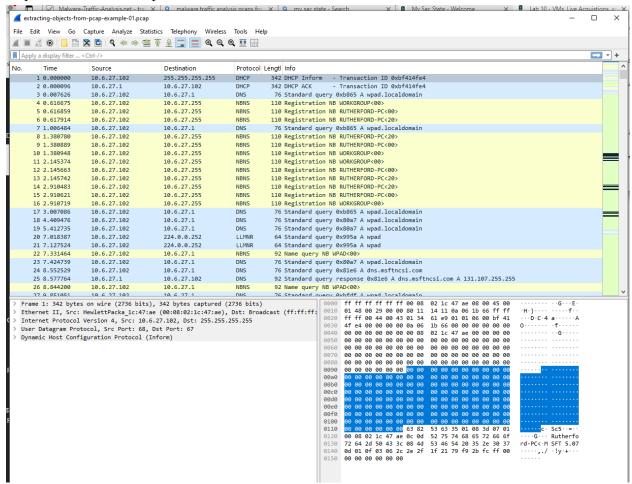
## **Task 2: Network Forensic Investigation**

Step 1: Install Wireshark



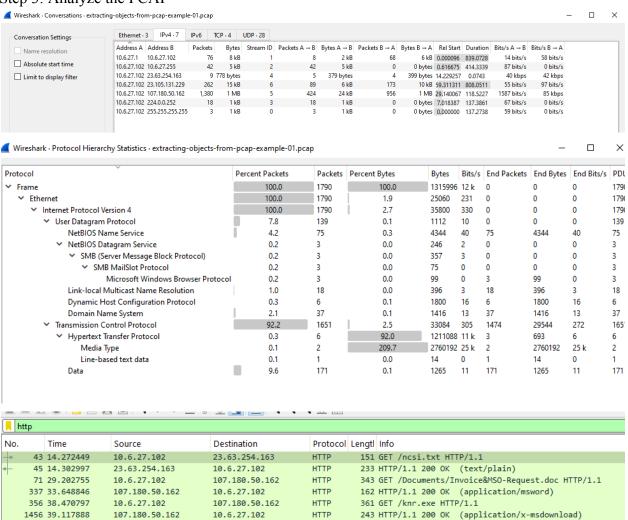
Successfully downloaded Wireshark.

Step 2: Download Sample PCAP

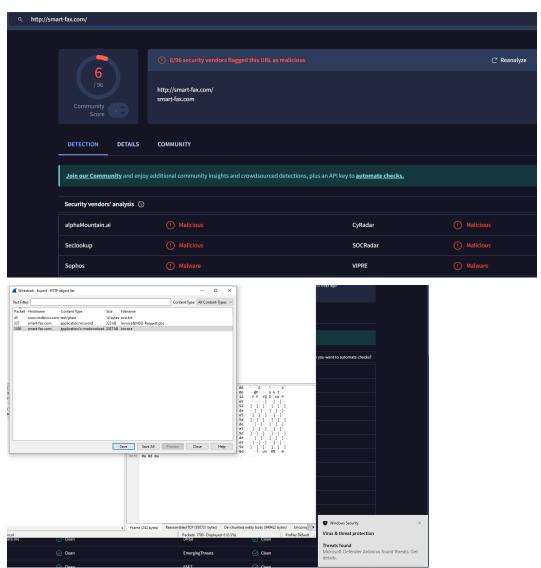


Successfully downloaded and loaded onto Wireshark.

## Step 3: Analyze the PCAP







Successfully found malware through analysis. I recognized what looked like regular traffic through this network by observing the packets and their sizes. Through this, I noticed that a document was downloaded from one of the sites that the suspect visited. After further analysis, the site that the document was downloaded from was flagged as malicious by different outside sources. When attempting to download the said document, my machine flagged it as a threat. The suspect's machine had downloaded malware from a suspicious site called smart-fax.com.