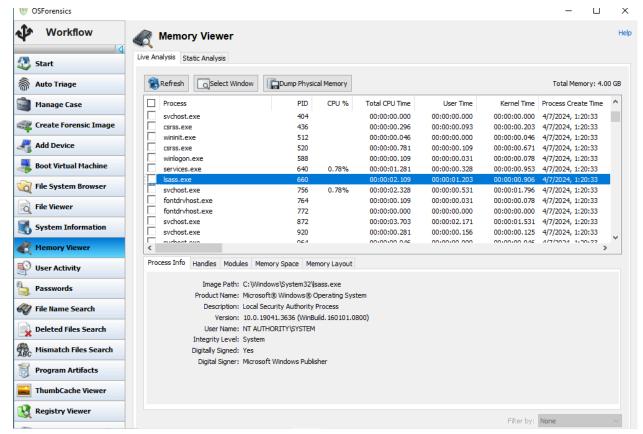
## Task 1:

```
C:\Windows\system32>cd c:\users\timothyd\Downloads
c:\Users\timothyd\Downloads>dir
Volume in drive C has no label.
Volume Serial Number is 96A4-C332
Directory of c:\Users\timothyd\Downloads
04/07/2024 12:15 AM
                       <DIR>
                       <DIR>
04/07/2024 12:15 AM
03/24/2024 02:58 PM
                        1,188,695,040 autopsy-4.21.0-64bit.msi
03/01/2024 12:56 AM
                       <DIR>
                                      Case Report
08/16/2017 03:45 PM
                       <DIR>
                                      Ch09Inchp01
04/02/2024 01:57 PM
                           19,809,721 Ch09Inchp01.exe
02/22/2024 10:15 PM
                           33,499,203 chapter04-Terry work usb.E01
04/02/2024 02:58 PM
                                9,691 demo 9.docx
                           18,864,464 hw v680.exe
03/02/2024 03:17 PM
03/24/2024 03:20 PM
                            3,348,102 HxDPortableSetup.zip
03/01/2024 12:30 AM
                       <DIR>
                                      InCh05
03/01/2024 12:22 AM
                          11,051,005 InCh05.zip
04/02/2024 01:49 PM
                       <DIR>
                                      NSRL-256m-Autopsy
04/02/2024 01:48 PM
                          773,217,105 NSRL-256m-Autopsy.zip
02/22/2024 10:10 PM
                          285,718,008 osf.exe
02/29/2024 11:59 PM
                       <DIR>
                                      winhex
04/02/2024 02:57 PM
                       <DIR>
                                      winhex (1)
04/02/2024 02:57 PM
                            4,143,160 winhex (1).zip
02/29/2024 11:59 PM
                            4,143,160 winhex.zip
                              527,640 winpmem mini x64 rc2.exe
04/07/2024 12:15 AM
             12 File(s) 2,343,026,299 bytes
                         7,413,846,016 bytes free
              8 Dir(s)
```

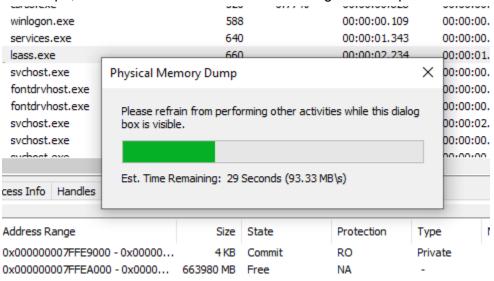
In this step, I have downloaded winpmem\_mini\_x64\_rc2.exe. Now I am in cmd as an admin and displaying my downloads folder.

```
c:\Users\timothyd\Downloads>winpmem_mini_x64_rc2.exe mem.raw
WinPmem64
Extracting driver to C:\Users\timothyd\AppData\Local\Temp\pmeC6A8.tmp
Driver Unloaded.
Loaded Driver C:\Users\timothyd\AppData\Local\Temp\pmeC6A8.tmp.
Deleting C:\Users\timothyd\AppData\Local\Temp\pmeC6A8.tmp
The system time is: 07:18:30
Will generate a RAW image
   - buffer_size_: 0x1000
CR3: 0x00001AA000
   4 memory ranges:
Start 0x00001000 - Length 0x0009E000
Start 0x00103000 - Length 0x00002000
Start 0x00103000 - Length 0xDFEED000
```

Here I am running winpmem and outputting it to mem.raw.



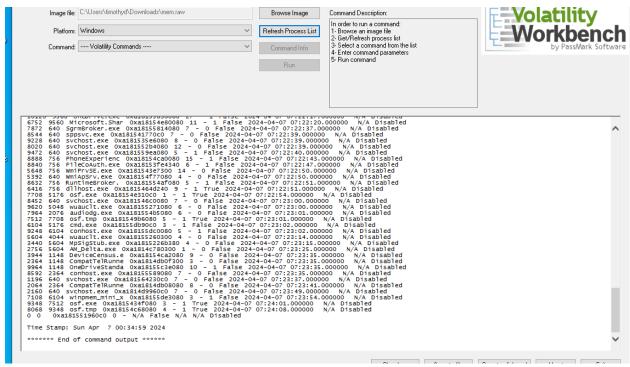
In this stpe, I am in OSF or ensics and am observing the isass process.



Now, lam dumping the physical memory.

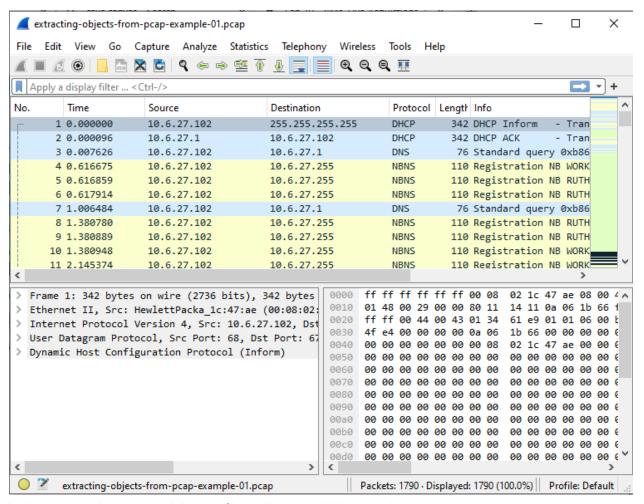


## Here I have the mem.raw file selected.

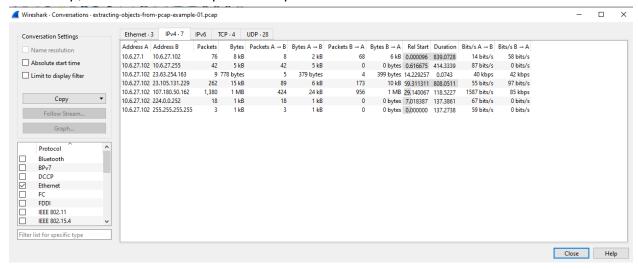


In this step, I clicked the "Open Memory Image in Volatility WorkBench" and then the "Get Process List" button.

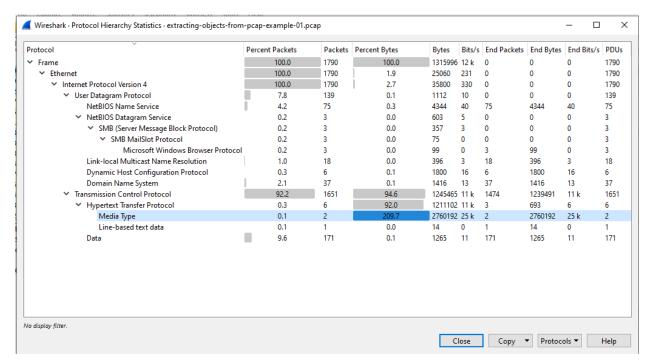
Task 2:



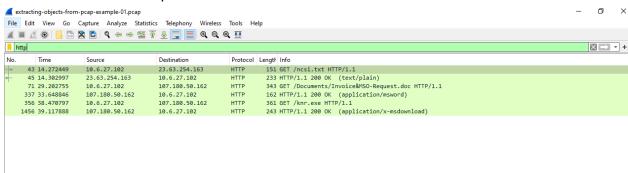
In this step, I downloaded the zip file and opened it in wireshark.



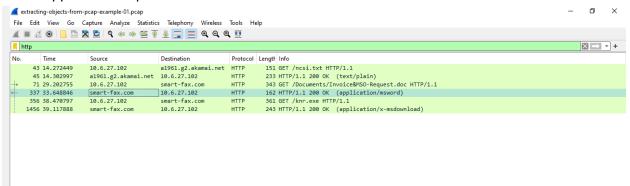
Here I am observing the statistics.



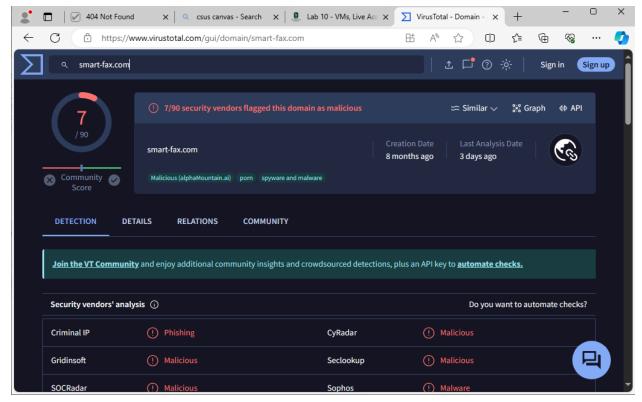
Here we can see that http traffic is included.



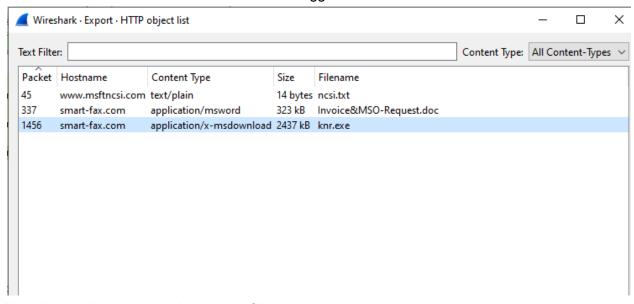
I have applied the http filter and can see that a word doc was downloaded.



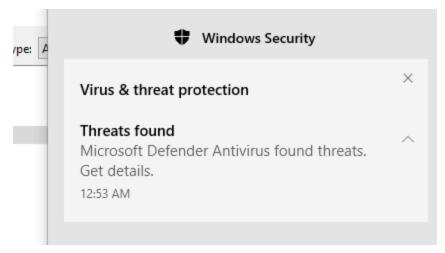
Upon setting the IP resolution, we can see smart-fax.com.



Here I can see that smart-fax.com has been flagged as malicious.



Here I am going to export the knr.exe file.



Here we can see that Windows detected that it is malware.