# PROG8290 - Assignment 5 - John White (6714158)

During this assignment, I had many problems with the installation of Caine. I ended up doing all of my work from the Live CD. I was originally using VMWare for the memory analysis because VirtualBox would not let my transfer my files via USB, and I was using VirtualBox for the image analysis because it's easier to attach multiple drives in VirtualBox.

## Part 1 – Memory Collection

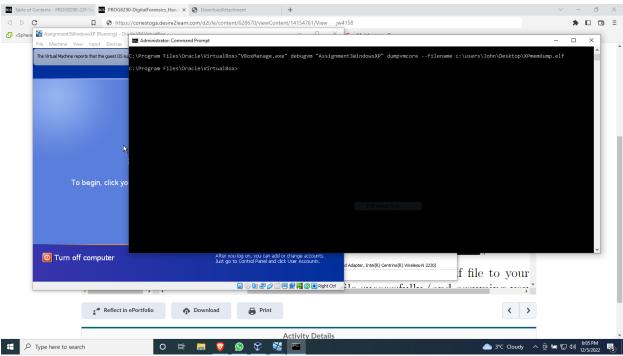


Figure 1.1 – Capturing the memory dump of the XP VM into a .elf file.

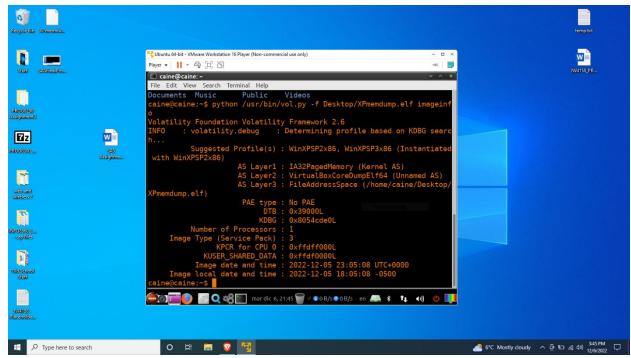


Figure 1.2 – Using Volatility to display the ImageInfo of the .elf file.

# Part 2 – Forensic imaging of disc

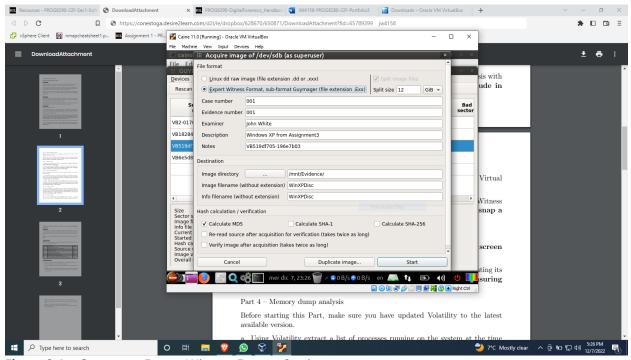


Figure 2.1 – Guymager Expert Witness Format Settings.

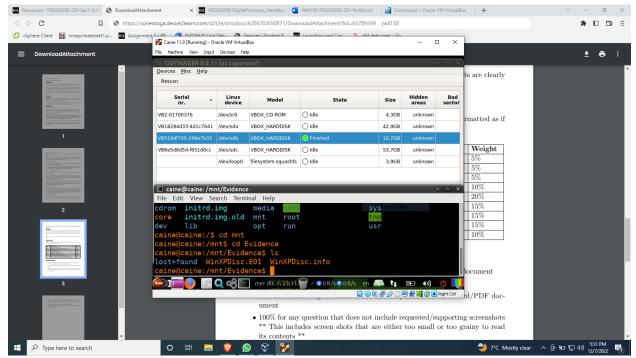


Figure 2.2 - .E01 file successfully created with Guymager.

#### Part 3 - Image Analysis

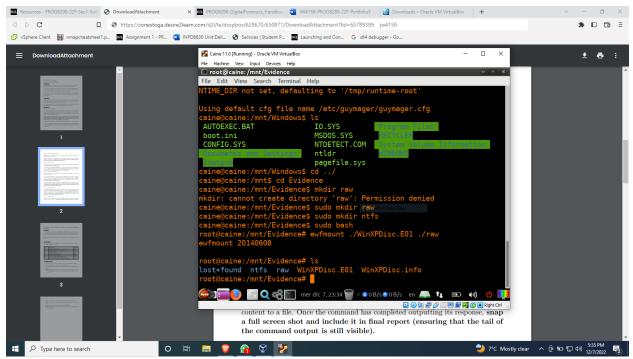


Figure 3.1 – Using ewfmount to mount the .E01 file to /raw.

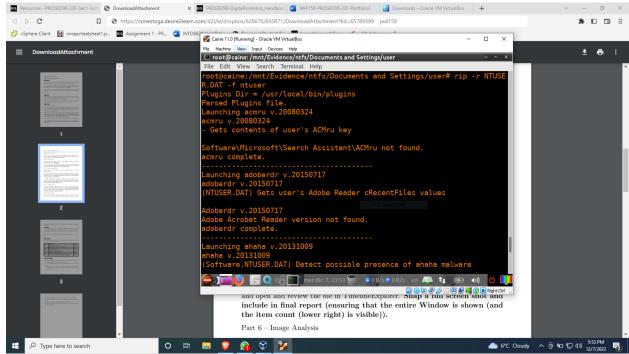


Figure 3.2 – Using rip to acquire the user data from NTUSER.DAT.

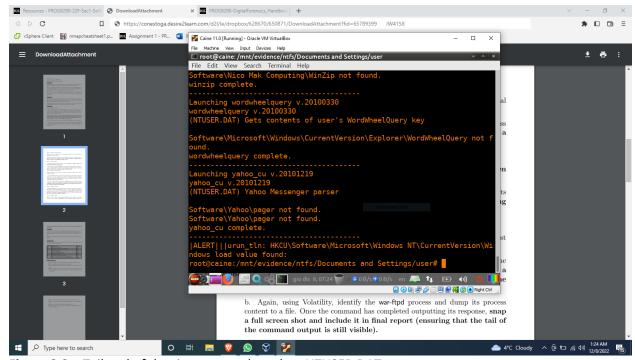


Figure 3.3 – Tail end of the rip command used on NTUSER.DAT.

#### Part 4 - Memory dump analysis

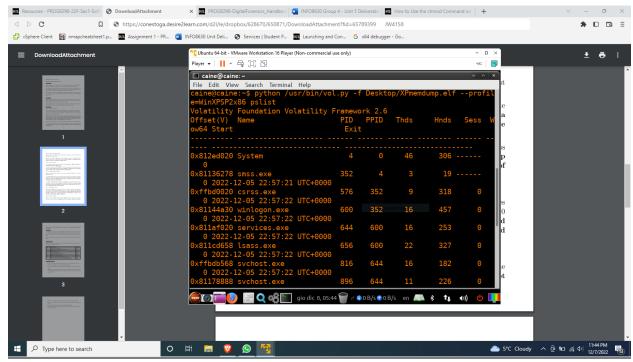


Figure 4.1 – Beginning of the list of processes running when the XP VM was scanned.

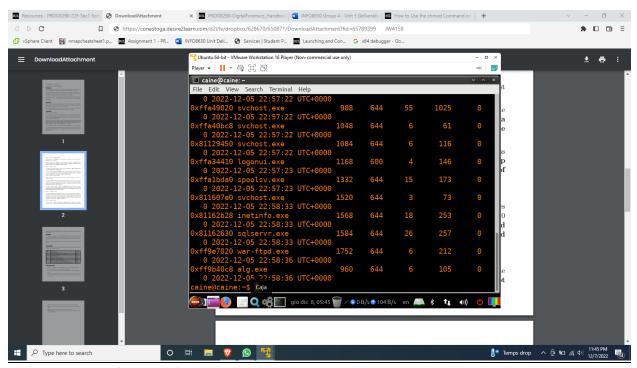


Figure 4.2 – End of the list of processes running when the XP VM was scanned.

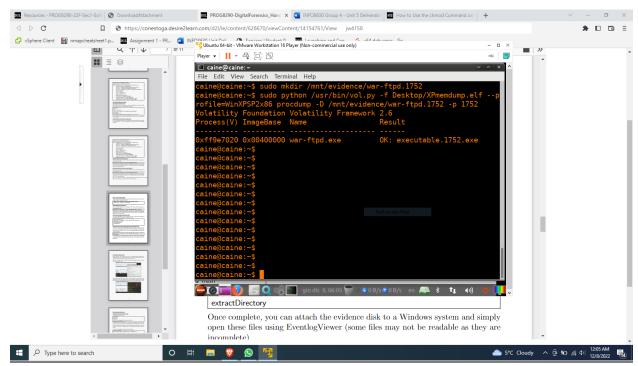


Figure 4.3 – The war-ftpd process was exported to a .exe file.

#### Part 5 - Creating a timeline

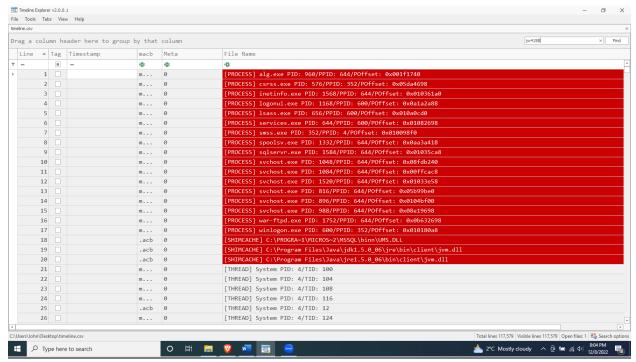


Figure 5.1 – Combined timeline open in Timeline Explorer.

## Part 6 - Image analysis

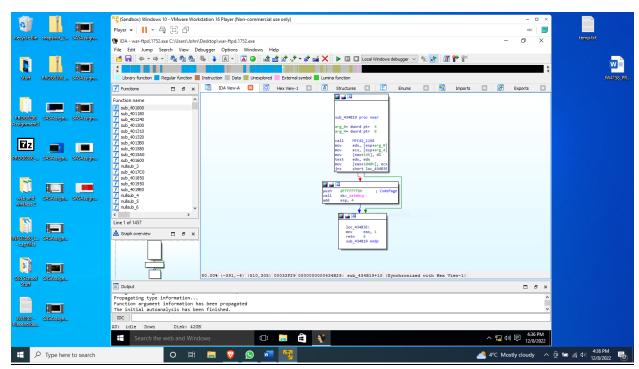


Figure 6.1 – war-ftpd.1752.exe open in IDA.