

## LAB 2A: Basic Static Techniques

**Course Name:** Malware Analysis and Reverse Engineering (IAM302)

**Student Name:** Nguyễn Trần Vinh – SE160258

**Instructor Name:** Mai Hoàng Đình

**Lab Due Date:** 11/1/2023

### Purpose

You will practice the techniques in chapter 1.

What you need:

- A Windows computer (real or virtual) with an Internet connection
- Recommended: the textbook: "Practical Malware Analysis"

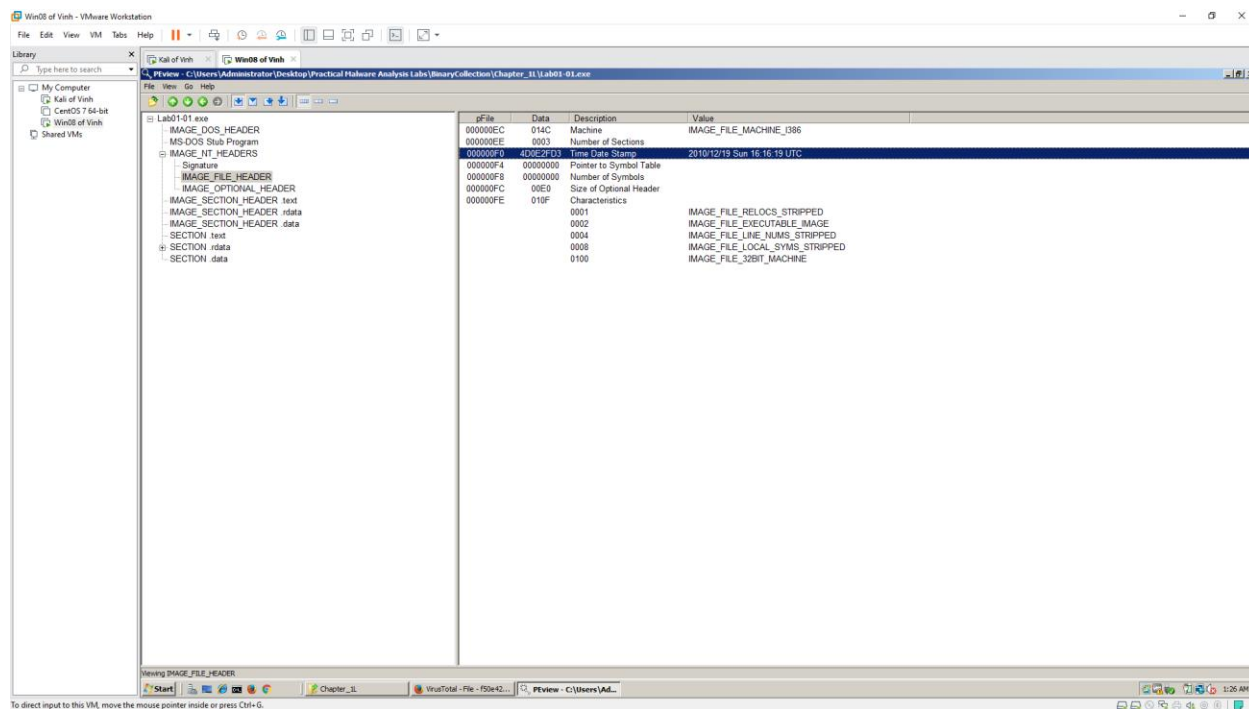
### VirusTotal

- Lab01-01.dll

The screenshot displays the VirusTotal web interface for the file Lab01-01.dll (SHA256: f50e42c8dfaab649bde0398867e930b86c2a599e8db83b260393082268f2dba). The file has a Community Score of 39/68, indicating it is likely malicious. A red banner states: "39 security vendors and no sandboxes flagged this file as malicious". The file size is 160.00 KB and it was uploaded 3 days ago (2023-01-07 16:57:18 UTC). The interface shows a list of detections from various security vendors:

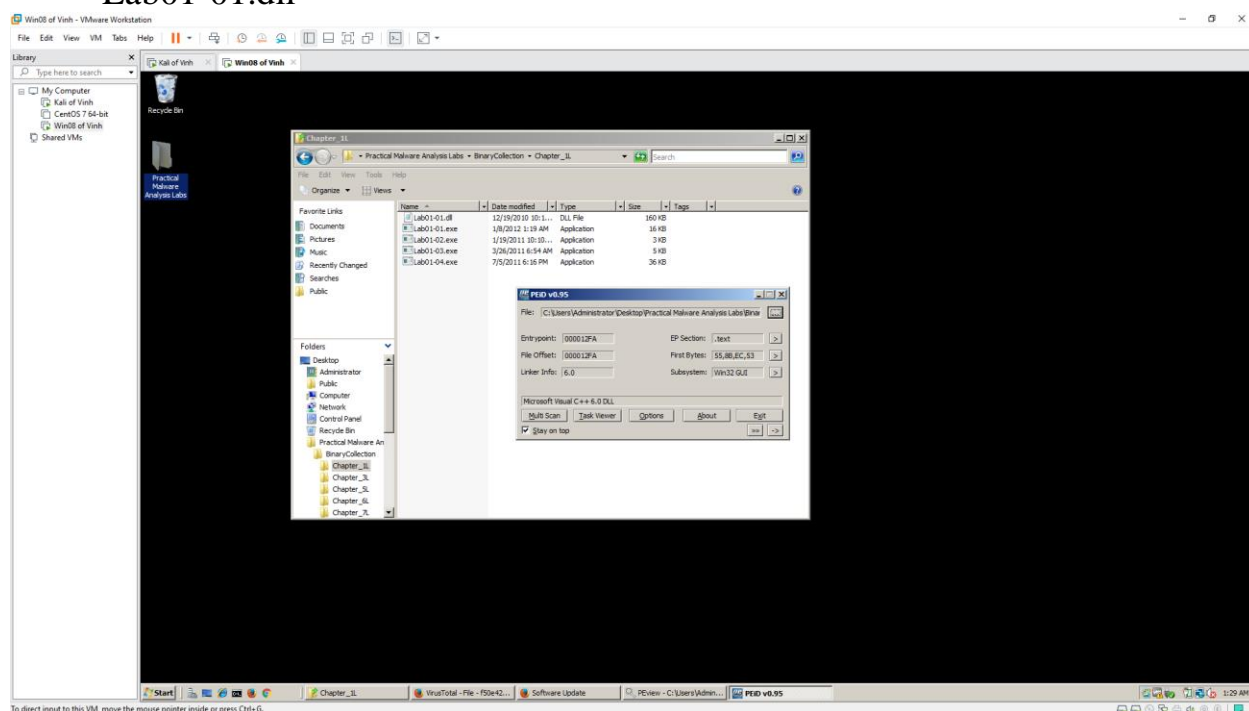
| Detection Vendor   | Detection Name                    |
|--------------------|-----------------------------------|
| Alibaba            | Trojan.Win32/Skeeyah.7b0ebff      |
| Antiy-AVL          | Trojan.Win32.BTSGeneric           |
| Avast              | Win32:Malware-gen                 |
| BitDefender        | Gen.Variant.Ulisse.105796         |
| ClamAV             | Win.Malware.Agent-6369668-0       |
| CrowdStrike Falcon | Win/malicious_confidence_100% (W) |
| Cynet              | Malicious (score: 100)            |
| Elastic            | Malicious (high Confidence)       |
| ALYac              | Trojan.Agent.Waski                |
| Arcabit            | Trojan.Ulisse.D19D44              |
| AVG                | Win32:Malware-gen                 |
| BitDefenderTheta   | Gen.NN.ZedlaF.36158.kq4@eGkQVtp   |
| Comodo             | Malware@#2dsw4albnce61            |
| Cylance            | Unsafe                            |
| Cyren              | W32/Skeeyah.AK.genEldorado        |
| Emsisoft           | Gen.Variant.Ulisse.105796 (B)     |





## PEiD

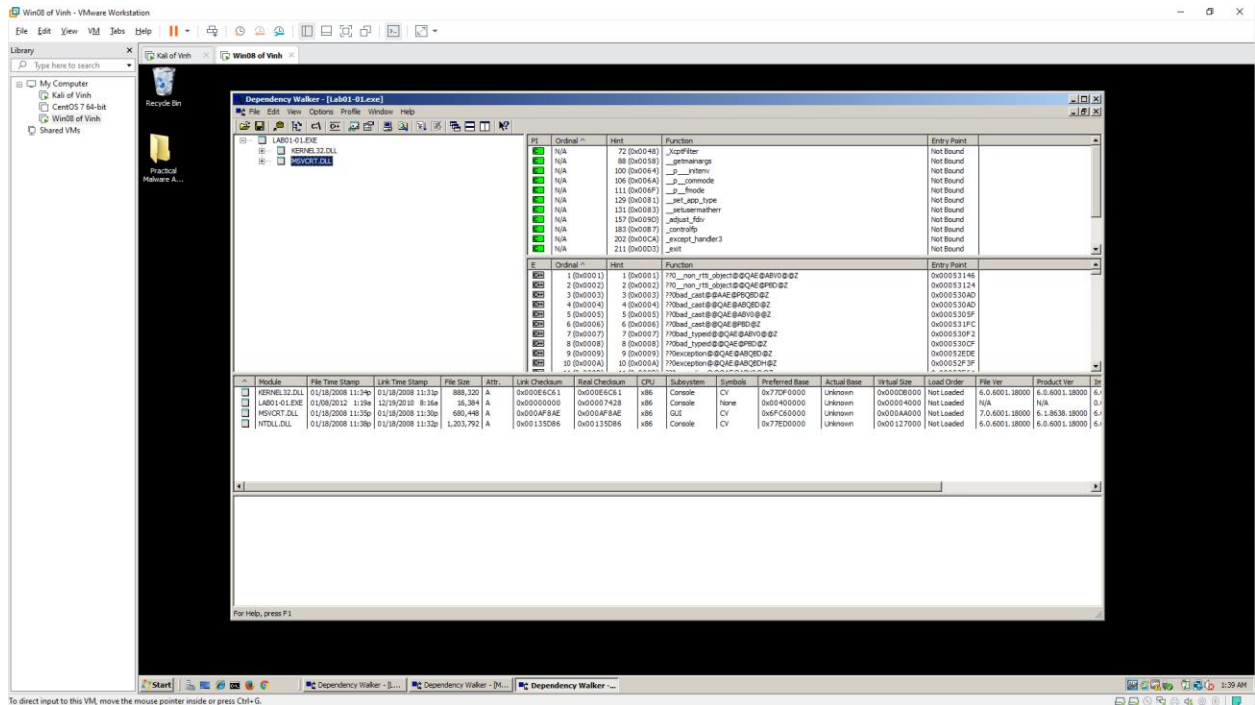
### - Lab01-01.dll



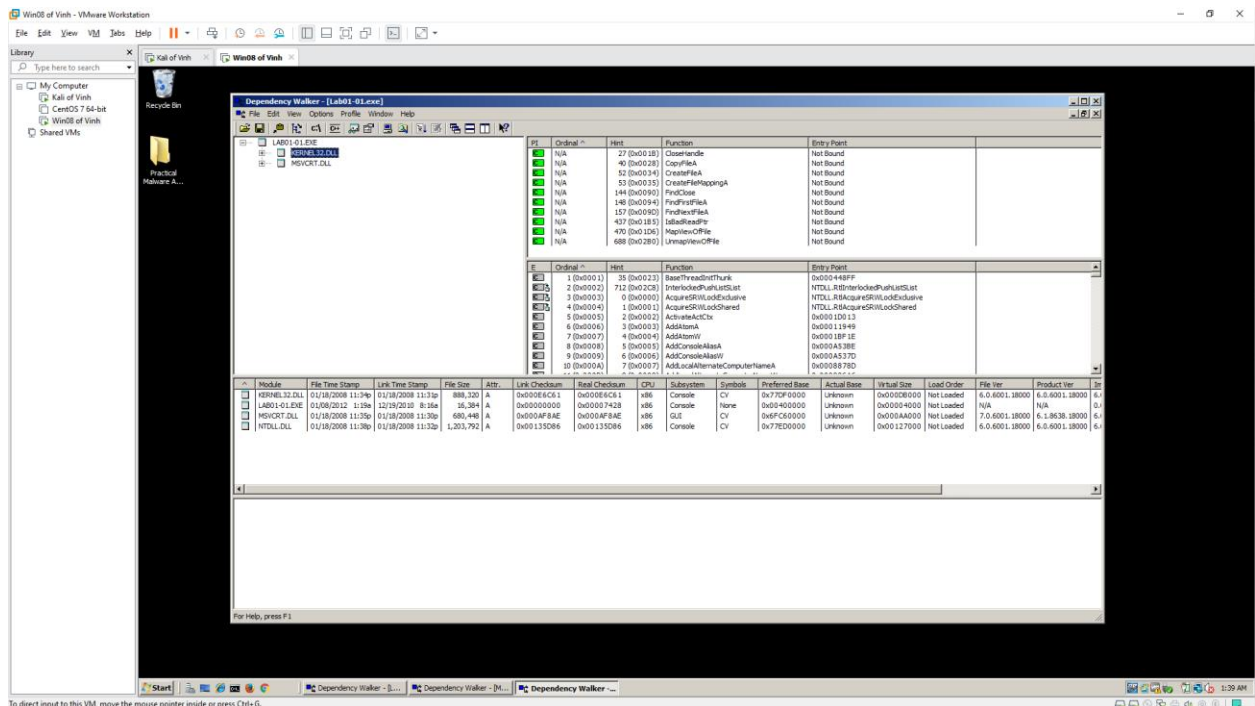
## Strings

### - Lab01-01.exe





To direct input to this VM, move the mouse pointer inside or press Ctrl+G.



To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

- Lab01-01.dll



## LAB 2B: Basic Static Techniques

**Course Name:** Malware Analysis and Reverse Engineering (IAM302)

**Student Name:** Nguyễn Trần Vinh – SE160258

**Instructor Name:** Mai Hoàng Đình

**Lab Due Date:** 11/1/2023

### Purpose

You will practice the techniques in chapter 1. This project follows Lab 1-2 in the textbook. There are more detailed solutions in the back of the book.

What you need:

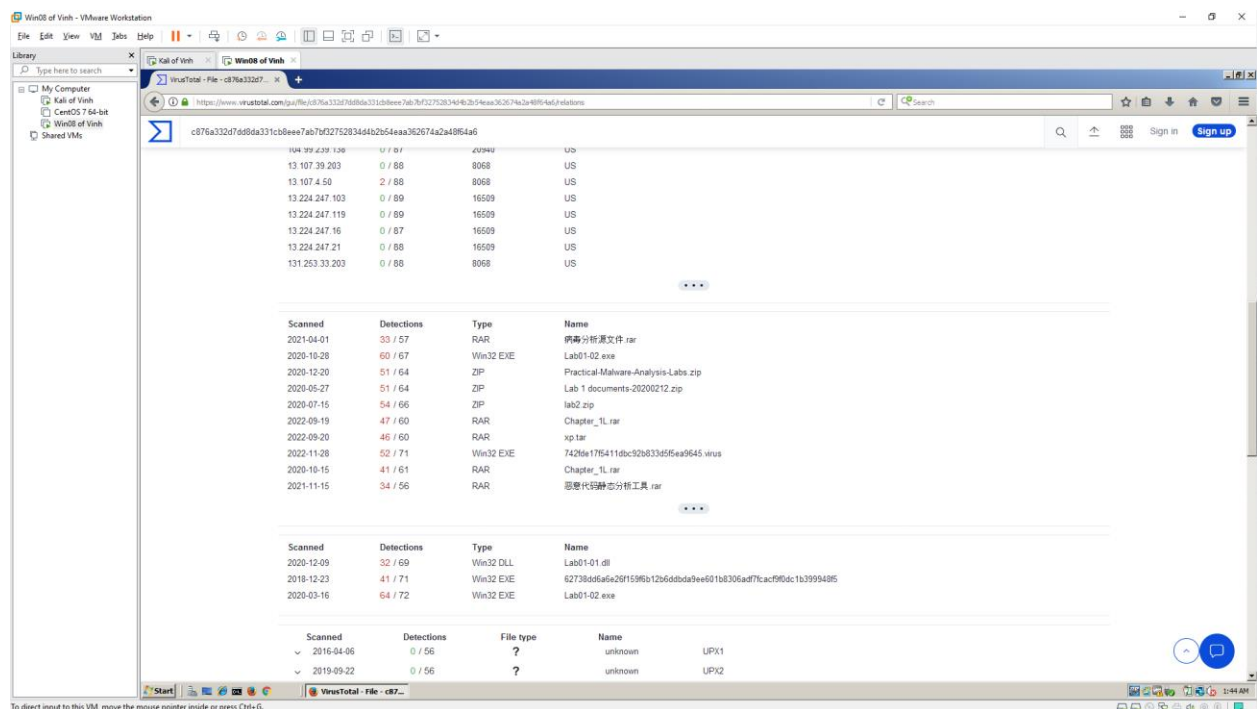
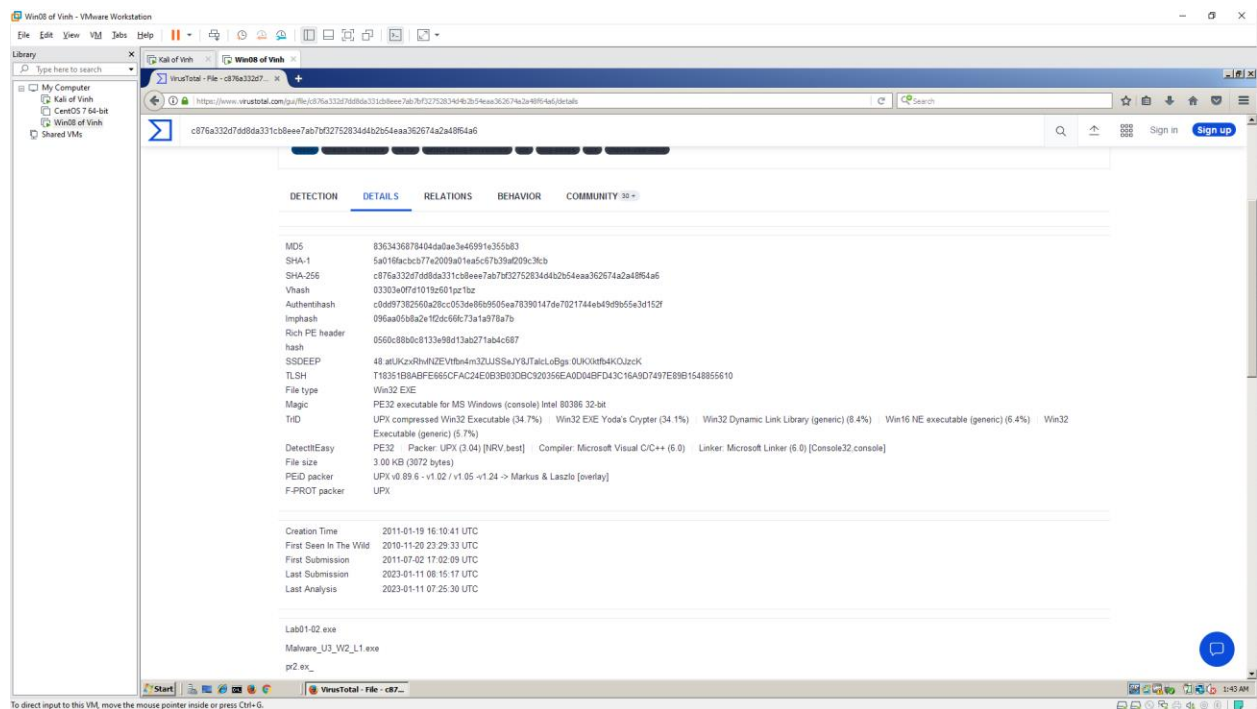
- A Windows computer (real or virtual) with an Internet connection
- Recommended: the textbook: "Practical Malware Analysis"

### VirusTotal

The screenshot shows the VirusTotal web interface within a VMware Workstation window. The browser displays the analysis page for a file named 'Lab01-02.exe' with a SHA-256 hash of 'c876a332d7d68da331cb8eee7ab7bf32752834d4b2b54aaa362674a2a4864a6'. The file is 3.00 KB and was uploaded 2 hours ago. A red circle with the number '53' indicates that 53 security vendors have flagged the file as malicious. Below this, a table lists the detections from various antivirus engines.

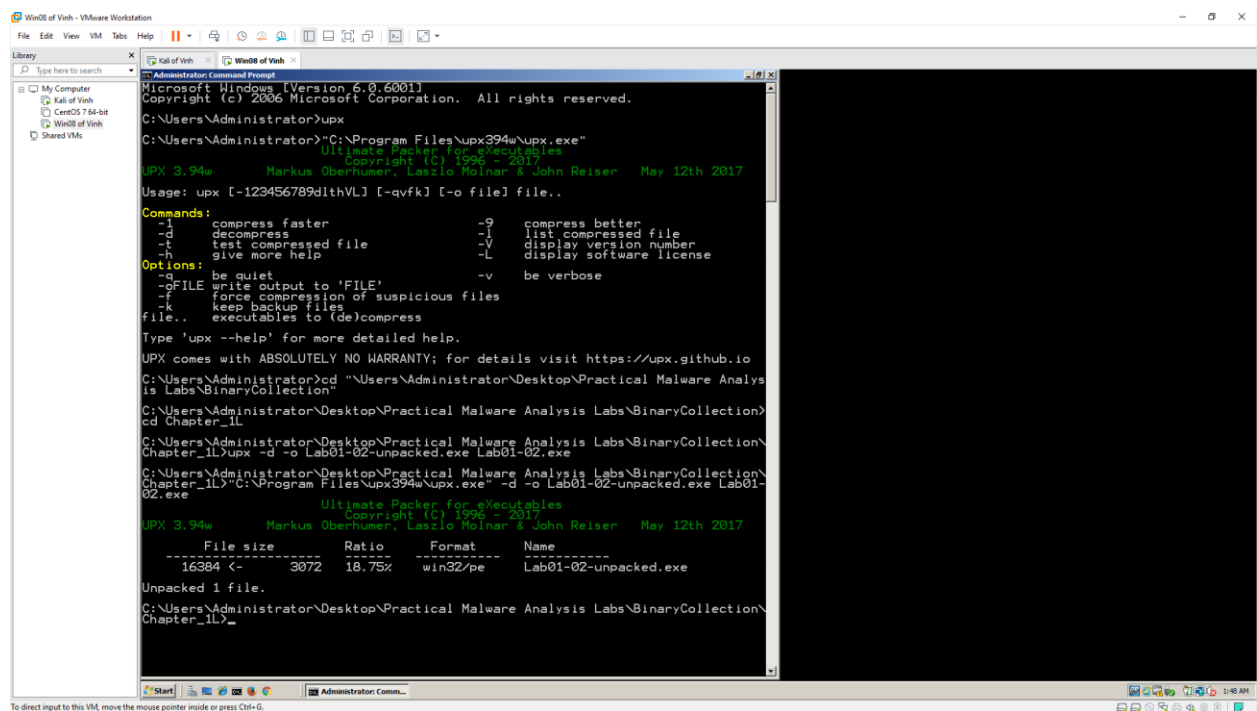
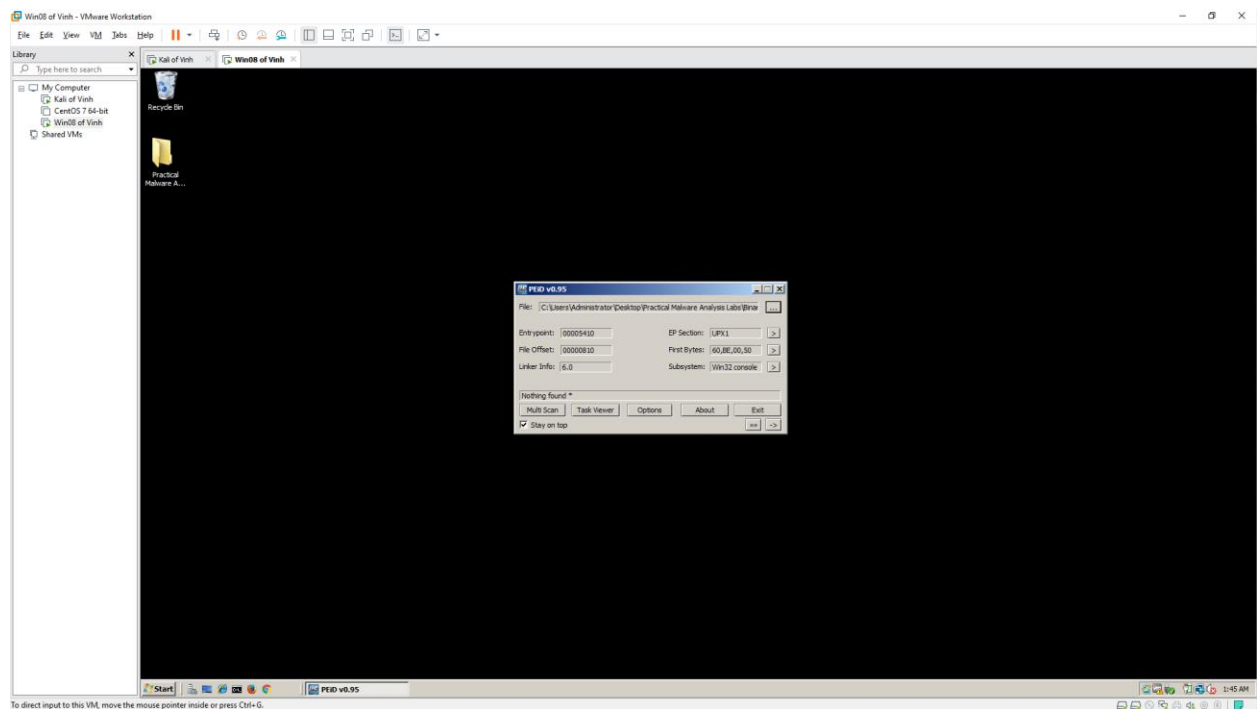
| Engine             | Detection                           |
|--------------------|-------------------------------------|
| AhnLab-V3          | Trojan.Win32.StartPage.C26214       |
| ALYac              | Trojan.Startpage.3072               |
| Arcabit            | Trojan.Ser.Ulisse.216               |
| AVG                | Win32/Malware-gen                   |
| Baidu              | Win32.Trojan-Clicker.Agent.ad       |
| BitDefenderThreat  | Gen:NN.Zexaf.36212.amCfa.W067f      |
| Comodo             | Malware@#222epuwhbzym               |
| Cybereason         | Malicious.878404                    |
| Alibaba            | TrojanClicker.Win32/Generic.1ba980f |
| Antiy-AVL          | Trojan/Win32.S/Generic              |
| Avast              | Win32/Malware-gen                   |
| Aiura (no cloud)   | TR/Downloader.Gen                   |
| BitDefender        | Gen.Variant.Ser.Ulisse.216          |
| ClamAV             | Win.Malware.Agent.6350563-0         |
| CrowdStrike Falcon | Win/malicious_confidence_100% (W)   |
| Cylance            | Unsafe                              |

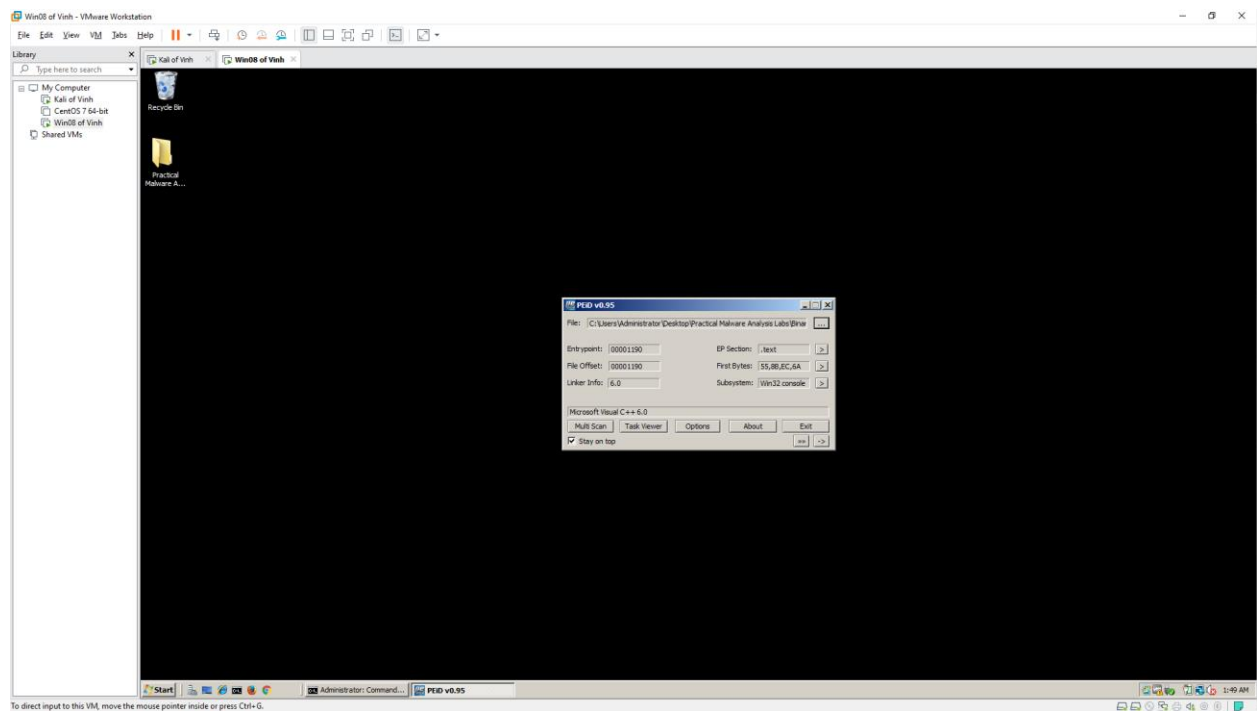




## Unpacking the File





[illegible]

## Strings

