

## Practical Malware Analysis Lab 3-3

### Questions

1. What do you notice when monitoring this malware with Process Monitor?
2. Can you identify any live memory modifications?
3. What are the malware's host based indicators?
4. What is the purpose of this program?

### Static Analysis

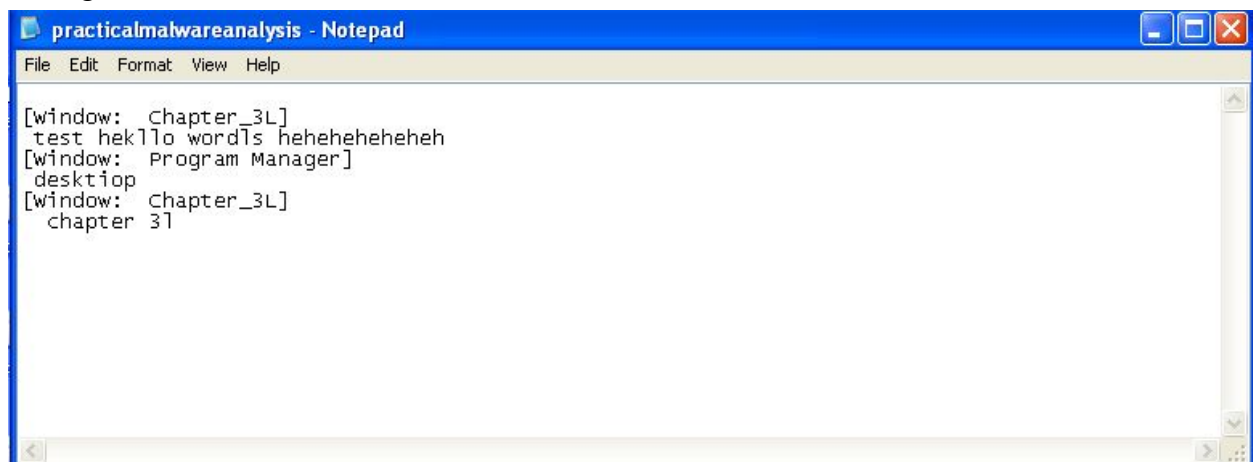
File: Lab03-03.exe

Imports: Kernel32.dll

Kernel32.dll → [Closehandle](#), [CreateFile](#), [CreateProcessA](#), [ExitProcess](#), [FindResourceA](#), [FreeEnvironmentStringA](#), [W](#), [GetCPInfo](#), [GetCommandLineA](#), [GetCurrentProcess](#), [GetFileSize](#), [LoadResource](#), [LockResource](#), [ReadProcessMemory](#), [Sleep](#), [WriteFile](#), [VirtualFree](#), [WriteProcessMemory](#)

### Dynamic Analysis

Whenever the malware is run it immediately kills itself and disappears. The malware creates the text document practicalmalwareanalysis.log and inside it is recorded keystrokes and the programs the user is using. Even though the malware closes itself immediately the log file keeps updating. By filtering procmon by the operation WriteFile this allows us to see what is still writing to the file.



4:00:3...	svchost.exe	988	WriteFile	C:\Documents and Settings\malware\D...	SUCCESS	Offset: 0, Length: 12
4:00:3...	svchost.exe	988	WriteFile	C:\Documents and Settings\malware\Desktop\Practical Malware Analysis Labs\BinaryCollection\Chapter_3L\practicalmalwareanalysis.log		
4:00:3...	svchost.exe	988	WriteFile	C:\Documents and Settings\malware\D...	SUCCESS	Offset: 22, Length: 4
4:00:3...	svchost.exe	988	WriteFile	C:\Documents and Settings\malware\D...	SUCCESS	Offset: 26, Length: 1
4:00:3...	svchost.exe	988	WriteFile	C:\Documents and Settings\malware\D...	SUCCESS	Offset: 27, Length: 1
4:00:3...	svchost.exe	988	WriteFile	C:\Documents and Settings\malware\D...	SUCCESS	Offset: 28, Length: 1

The program svchost.exe is writing to the log file! The malware must infect this file.

[illegible]

The program immediately kills itself when run.

Svchost is writing to the keyloggers log file.

The log file `practicalmalwareanalysis.log`

This malware is a keylogger.