

# Malware Threats

## Lab Assignments (Module 7)

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**Date of Submission:** 18/06/2019

### Creating a Virus Using the JPS Virus Maker Tool

1. Checking what all features wanted, for the virus to perform



## 2. Virus is created

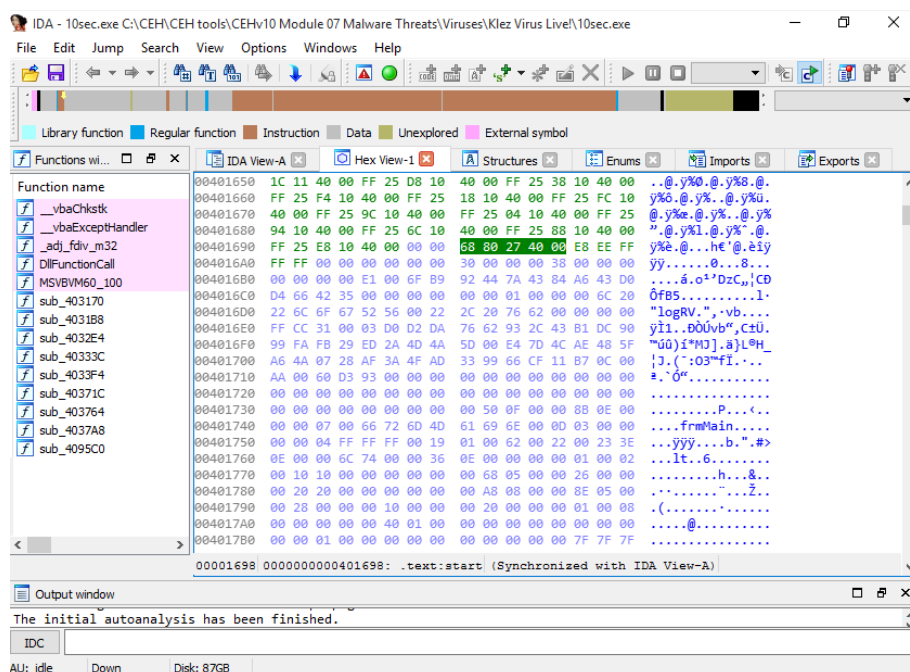
Name	Date modified	Type	Size
JPS jps	2/25/2007 7:52 AM	Application	296 KB
ReadMe	2/25/2007 7:56 AM	Text Document	3 KB
Svchost	6/18/2019 7:06 PM	Application	25 KB

## Lab Analysis

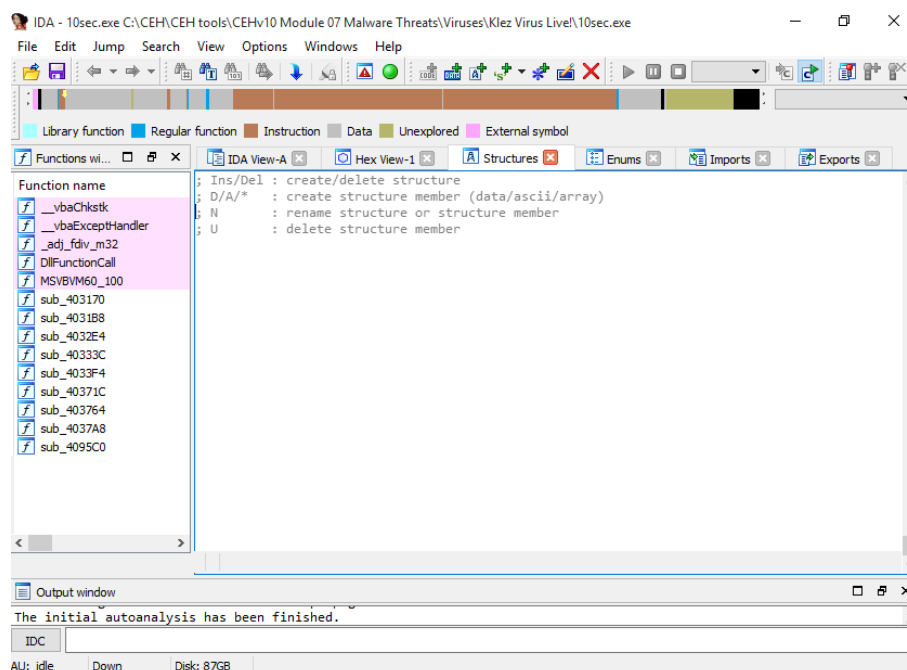
Tool/Utility	Information
JPS Virus Maker Tool	<b>To make Virus options are used:</b> <ul style="list-style-type: none"><li>• Disable Yahoo</li><li>• Disable Internet Explorer</li><li>• Disable Norton Antivirus</li><li>• Disable McAfee Antivirus</li><li>• Disable Taskbar</li><li>• Disable Security Restore</li><li>• Disable Control panel</li><li>• Hide Windows Clock</li><li>• Hide All Tasks in Task,mgr</li><li>• Destroy Audio Services</li><li>• Terminate Windows</li><li>• Auto Setup</li></ul>

## Virus Analysis Using IDA Pro

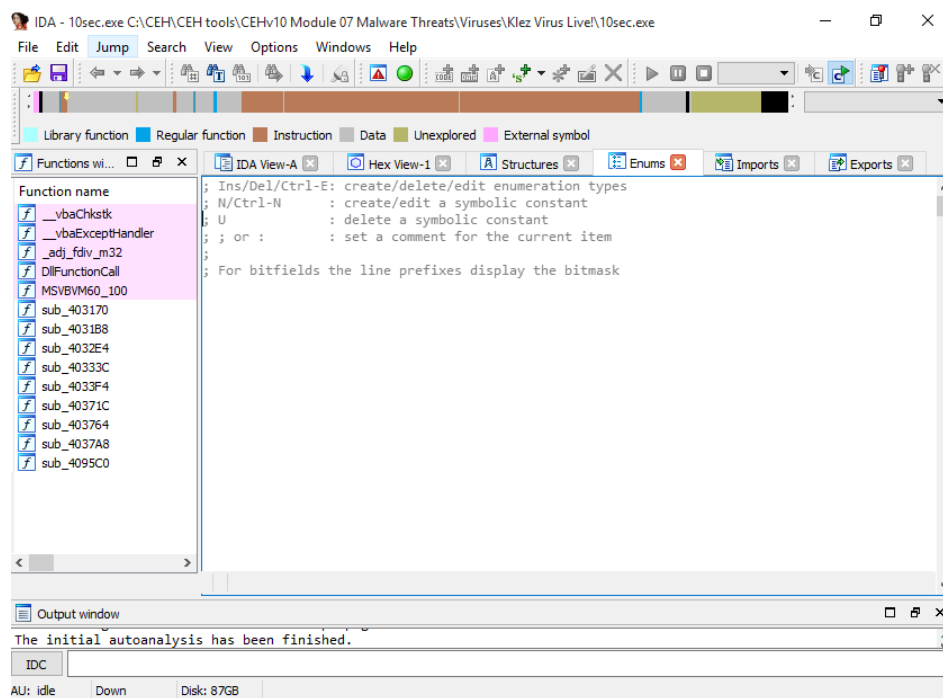
## 1. Hex View-A



## 2. Structure



### 3. Enums

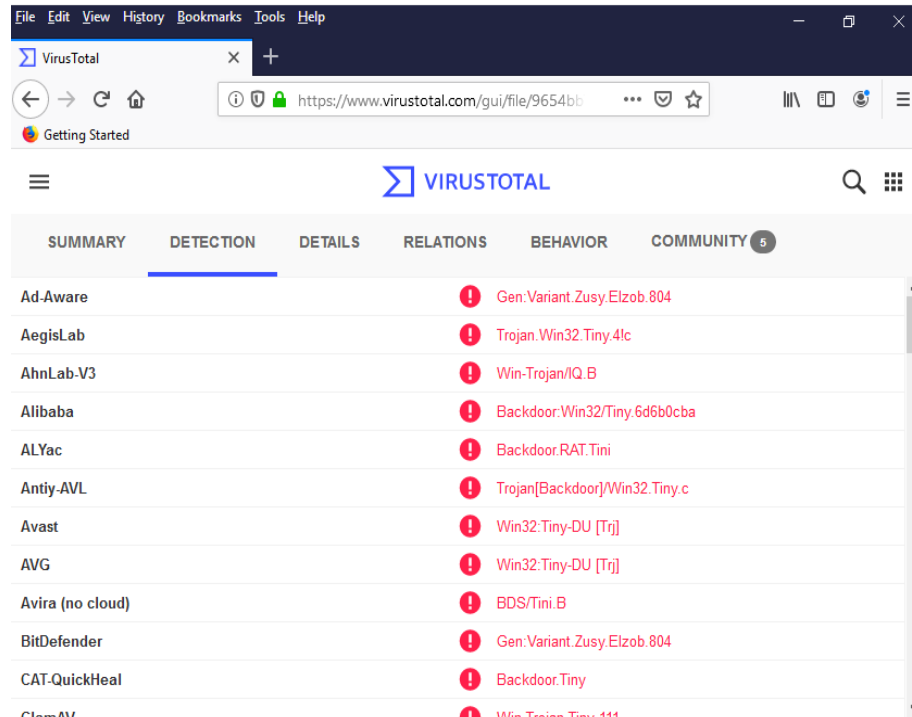


### Lab Analysis

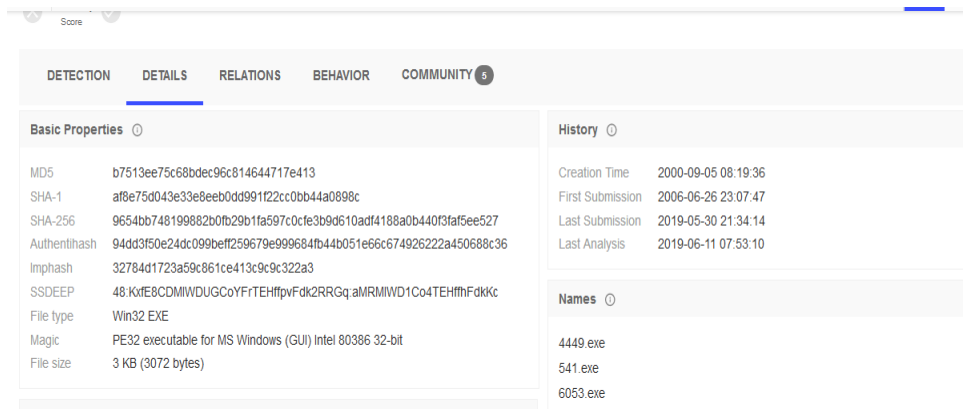
Tool/Utility	Information Collected/Objective Achieved
IDA Pro	File name: 10sec.exe
	Output: <ul style="list-style-type: none"><li>• Hex View-A</li><li>• View Structures</li><li>• View Enums</li></ul>

## Virus Analysis Using Virus Total

## 1. Virus total, scanned!



## 2. Details



## Lab Analysis

Tool/Utility	Information Collected/Objective Achieved
<b>Virus Total</b>	<b>Scan Report Shows:</b> <ul style="list-style-type: none"> <li><b>SHA256:</b> 9654bb748199882b0fb29b1fa597c0cfe3b9d610asf4188a0b440f3faf5ee527</li> <li><b>SHA1:</b> af8e75d043e33e8eeb0dd991f22cc0bb44a0898c</li> <li><b>MD5:</b> b7513ee75c68bdec96c814644717e413</li> <li><b>File size:</b> 3 KB</li> <li><b>File name:</b> tini</li> <li><b>File Type:</b> Win32</li> <li><b>Analysis date:</b> 2019-06-11 07:53:10</li> </ul>

## Virus Analysis Using OllyDbg

OllyDbg - tini.exe

File View Debug Options Window Help

Log data

Threads

Ident	Entry	Data block	Last error	Status	Prior
0000003C	00401000	7FFD0000	ERROR_SUCCESS (000)	Active	32 +
00000F28	77B45B00	7FFDA000	ERROR_SUCCESS (000)	Active	32 +

Executable modules

Base	Size	Entry	Name	File version	Path
00400000	00010000	00401000	tini		C:\CEH\CEH v1.10
73FF0000	00000000	73FF1740	WSOCK32	10.0.10240.1638	C:\Windows\...
74800000	00091000	74800A00	apphelp	10.0.10240.1638	C:\Windows\...
74C20000	00059000	74C58C00	bcryptPr	10.0.10240.1638	C:\Windows\...
74C80000	0000A000	74C82A00	CRYPTBASE	10.0.10240.1638	C:\Windows\...
74C90000	0001E000	74C9B640	SspiCli	10.0.10240.1638	C:\Windows\...
76570000	00175000	7660C900	KERNELBA	10.0.10240.1638	C:\Windows\...
76C40000	000BE000	76C75630	nsivort	7.0.10240.16384	C:\Windows\...
76DA0000	0005C000	76DB36B0	WS2_32	10.0.10240.1638	C:\Windows\...
771C0000	00043000	771CF570	sechost	10.0.10240.1638	C:\Windows\...
77400000	000AC000	774336B0	RPCRT4	10.0.10240.1638	C:\Windows\...
77930000	00007000	77931D40	NSI	10.0.10240.1638	C:\Windows\...
77940000	000F0000	779537D0	KERNEL32	10.0.10240.1638	C:\Windows\...
77B80000	00170000		ntdll	10.0.10240.1638	C:\Windows\...

Memory map

Address	Size	Owner	Section	Contains	Type	Access	Init
00100000	00010000				Map	RW	RW
00200000	00003000				Priv	RW	RW
00400000	00014000				Map	R	R
00500000	0000B000				Priv	RW	Gua: RW
00600000	00002000				Priv	RW	Gua: RW
00700000	00003000				Priv	RW	Gua: RW
00800000	00004000				Map	R	R
00900000	00002000				Priv	RW	RW
00A00000	00002000				Priv	RW	RW
00B00000	0000E000				Map	R	R
00C00000	00005000				Priv	RW	Gua: RW
00D00000	0000B000				Map	R	R
00E00000	00001000	tini		PE header	Image	R	RWE
00F00000	00001000	tini		code	Image	R	RWE
01000000	00001000	tini		imports	Image	R	RWE
01100000	00000000	tini		data	Image	R	RWE
01200000	00002000				Priv	RW	Gua: RW
01300000	00001000				Priv	RW	Gua: RW
01400000	0000B000				Priv	RW	Gua: RW
01500000	00000000				Priv	RW	Gua: RW

Single step event at ntdll.77BEAEF4 - use Shift+F7/F8/F9 to pass exception to program

Paused

## Lab Analysis

Tool/Utility	Information Collected/Objective Achieved
OllyDbg	<b>Result:</b> <ul style="list-style-type: none"> <li>• CPU-main thread</li> <li>• Log data</li> <li>• Executable modules</li> <li>• Memory Map</li> <li>• Threads</li> </ul>

## Creating a Worm Using Internet Worm Maker Thing

## Lab Analysis

Tool/Utility	Information Collected/Objective Achieved
Internet Worm Maker Thing	<b>To make Worm option are used:</b> <ul style="list-style-type: none"> <li>• Hide all driver</li> <li>• Disables Task Manager</li> <li>• Disable Keyboard</li> <li>• Disable mouse</li> <li>• Message box</li> <li>• Disable Regedit</li> <li>• Disable Explorer.exe</li> <li>• Change Reg owner</li> <li>• Change HomePage</li> <li>• Disable Windows security</li> <li>• Disable Norton security</li> <li>• Disable Run command</li> <li>• Disable Shutdown</li> </ul>

