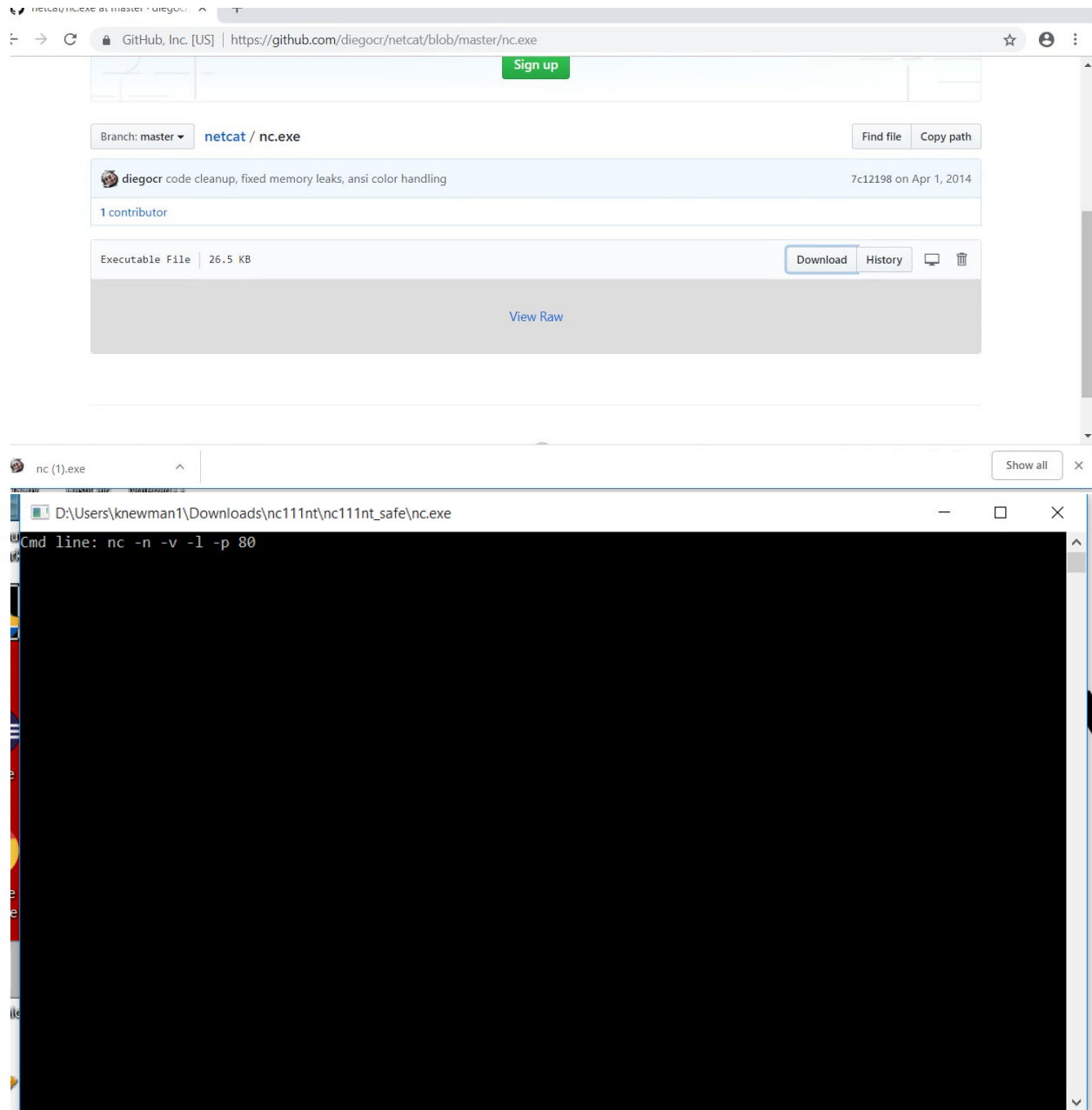


## Course Textbook Exercise 5.1 Finding Malicious Programs



The image shows a Windows desktop environment. In the foreground, the Task Manager window is open, displaying the 'Performance' tab. The 'Network' section shows 0% usage. The 'Processes' tab is also visible, showing a list of running applications and background processes. Below Task Manager, a Command Prompt window is open, displaying the output of the 'netstat -an' command. The output lists active network connections, including listening ports on the local machine.

**Task Manager Performance Tab:**

Category	Name	Status	CPU	Memory	Disk	Network
Apps (2)	nc (32 bit)		0%	0.5 MB	0 MB/s	0 Mbps
	Task Manager		0%	9.6 MB	0 MB/s	0 Mbps
Background processes (45)	COM Surrogate		0%	1.2 MB	0 MB/s	0 Mbps
	Host Process for Windows Tasks		0%	4.4 MB	0 MB/s	0 Mbps
	Java Update Checker (32 bit)		0%	2.4 MB	0 MB/s	0 Mbps
	Java Update Scheduler (32 bit)		0%	1.5 MB	0 MB/s	0 Mbps
	IsyncHost (32 bit)		0%	0.9 MB	0 MB/s	0 Mbps
	Microsoft Distributed Transaction...		0%	0.1 MB	0 MB/s	0 Mbps
	Microsoft OneDrive (32 bit)		0%	6.2 MB	0.1 MB/s	0 Mbps
	Microsoft Windows Search Inde...		0%	12.1 MB	0 MB/s	0 Mbps
	mongod		0%	3.4 MB	0 MB/s	0 Mbps
	mysqld		0%	1.8 MB	0 MB/s	0 Mbps


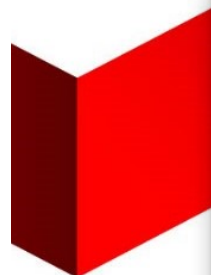
**Command Prompt Output:**

```
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\knewman1>netstat -an

Active Connections

Proto Local Address           Foreign Address         State
TCP    0.0.0.0:135               0.0.0.0:0               LISTENING
TCP    0.0.0.0:445               0.0.0.0:0               LISTENING
TCP    0.0.0.0:1536              0.0.0.0:0               LISTENING
TCP    0.0.0.0:1537              0.0.0.0:0               LISTENING
TCP    0.0.0.0:1538              0.0.0.0:0               LISTENING
TCP    0.0.0.0:1539              0.0.0.0:0               LISTENING
TCP    0.0.0.0:1541              0.0.0.0:0               LISTENING
TCP    0.0.0.0:1544              0.0.0.0:0               LISTENING
TCP    0.0.0.0:1545              0.0.0.0:0               LISTENING
TCP    0.0.0.0:1579              0.0.0.0:0               LISTENING
TCP    0.0.0.0:3306              0.0.0.0:0               LISTENING
TCP    0.0.0.0:3389              0.0.0.0:0               LISTENING
TCP    0.0.0.0:4000              0.0.0.0:0               LISTENING
TCP    0.0.0.0:7680              0.0.0.0:0               LISTENING
TCP    0.0.0.0:8000              0.0.0.0:0               LISTENING
TCP    0.0.0.0:8089              0.0.0.0:0               LISTENING
TCP    0.0.0.0:8191              0.0.0.0:0               LISTENING
TCP    0.0.0.0:8834              0.0.0.0:0               LISTENING
TCP    0.0.0.0:9427              0.0.0.0:0               LISTENING
TCP    0.0.0.0:22443             0.0.0.0:0               LISTENING
TCP    0.0.0.0:32111             0.0.0.0:0               LISTENING
TCP    10.150.3.212:139         0.0.0.0:0               LISTENING
```



TCPView - Sysinternals: www.sysinternals.com

File Options Process View Help

Process	PID	Protocol	Local Address	Local Port	R
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24911	a2
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24912	a2
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24913	a2
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24914	a2
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24915	a2
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24917	72
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24918	a1
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24919	a1
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24922	64
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24925	15
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24926	15
chrome.exe	11608	UDP	CYBERUG-86	5353	*
chrome.exe	11608	UDP	CYBERUG-86	5353	*
chrome.exe	11608	UDPV6	cyberug-86.ad.mar...	5353	*
chrome.exe	11608	TCP	cyberug-86.ad.mar...	24932	orc
lsass.exe	648	TCP	CYBERUG-86	1539	CY
lsass.exe	648	TCP	CYBERUG-86	1545	CY
lsass.exe	648	UDP	CYBERUG-86	62241	*
lsass.exe	648	TCPV6	cyberug-86.ad.mar...	1539	cyl
lsass.exe	648	TCPV6	cyberug-86.ad.mar...	1545	cyl
mongod.exe	5104	TCP	CYBERUG-86	8191	CY
mongod.exe	5104	TCP	CYBERUG-86	8191	loc
mongod.exe	5104	TCP	CYBERUG-86	8191	loc
mongod.exe	5104	TCP	CYBERUG-86	8191	loc

Endpoints: 130 Established: 45 Listening: 39 Time Wait: 0 Close Wait: 0

Week 5 - Project 2 x TCPView for Windows - Window x +

https://docs.microsoft.com/en-us/sysinternals/downloads/tcpview

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## TCPView v3.05

07/24/2011 • 2 minutes to read • Contributors

By Mark Russinovich

Published: July 25, 2011

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TCPView.zip

Endpoints: 132 Established: 47 Listening: 39 Time Wait: 0 Close Wait: 0

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- Process Monitor
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- PsGetSid

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## Process Explorer v16.21

05/15/2017 • 2 minutes to read • Contributors

By Mark Russinovich

Published: May 16, 2017

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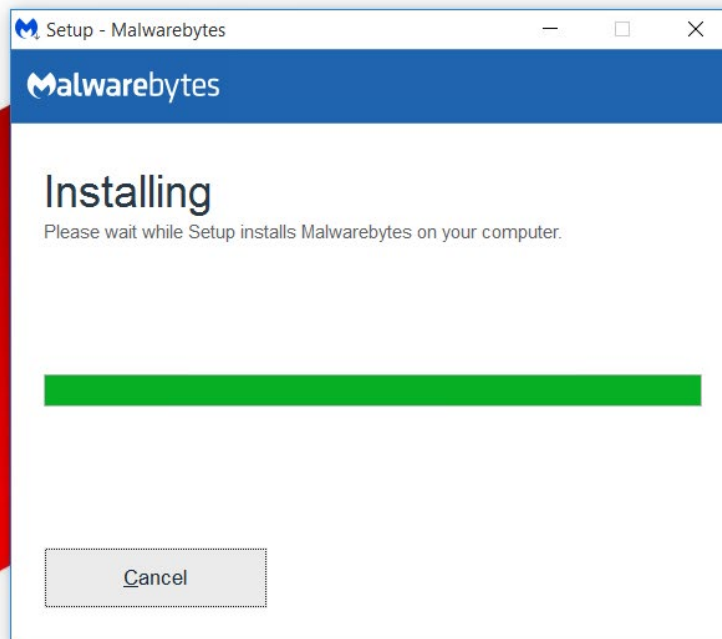
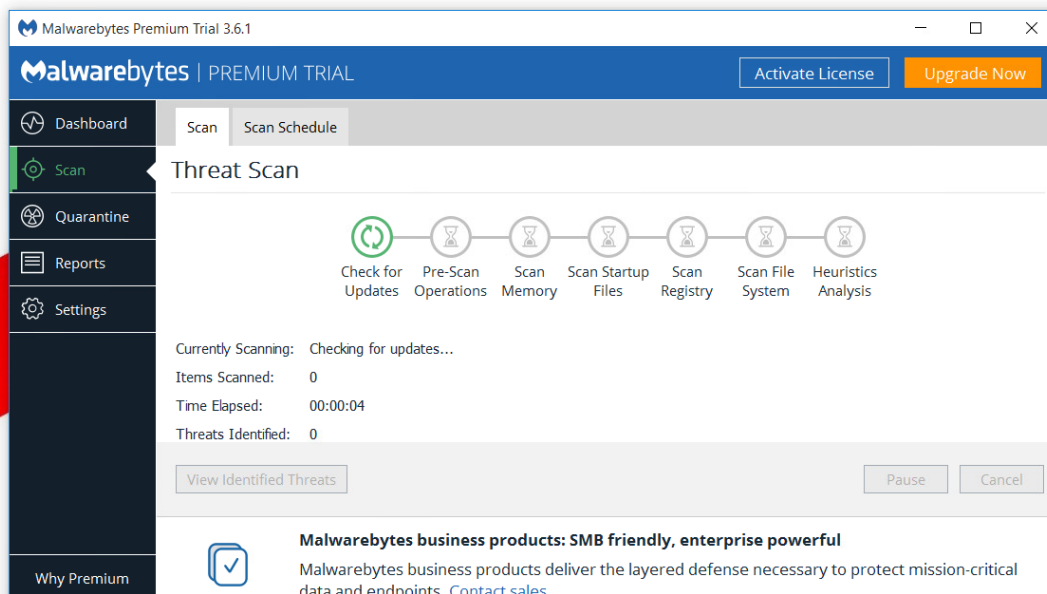
Process Explorer - Sysinternals: www.sysinternals.com [MARYVILLE\knewman1]

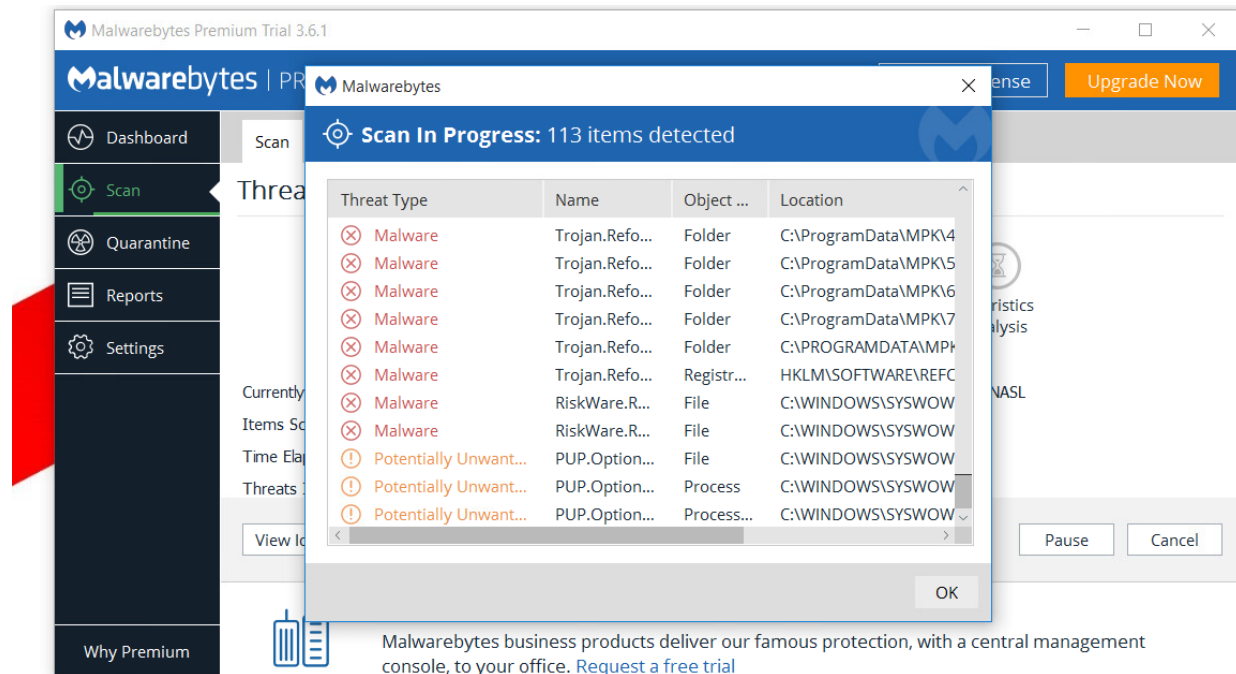
File Options View Process Find Users Help

Process	CPU	Private Bytes	Working Set	PID	Description	Company Name
System Idle Process	88.99	0 K	4 K	0		
System	0.35	420 K	64,424 K	4		
Interrupts	1.15	0 K	0 K	n/a	Hardware Interrupts and DPCs	
smss.exe		344 K	556 K	316		
csrss.exe	< 0.01	1,328 K	1,732 K	440		
wininit.exe		892 K	1,120 K	508		
services.exe	3.02	4,720 K	7,304 K	640		
svchost.exe	< 0.01	5,976 K	11,116 K	780	Host Process for Windows S...	Microsoft Corporation
WmiPrvSE.exe		18,900 K	24,832 K	2636		
RuntimeBroker.exe		7,004 K	25,524 K	5356	Runtime Broker	Microsoft Corporation
ShellExperienceHost.exe	Susp...	13,288 K	50,592 K	5492	Windows Shell Experience H...	Microsoft Corporation
SearchUI.exe	Susp...	52,720 K	107,076 K	8800	Search and Cortana applicati...	Microsoft Corporation
WmiPrvSE.exe		2,148 K	7,848 K	11748		
svchost.exe	< 0.01	3,840 K	6,724 K	844	Host Process for Windows S...	Microsoft Corporation
svchost.exe	< 0.01	12,204 K	17,756 K	1000	Host Process for Windows S...	Microsoft Corporation
svchost.exe		7,224 K	12,488 K	1016	Host Process for Windows S...	Microsoft Corporation
svchost.exe		14,588 K	15,596 K	84	Host Process for Windows S...	Microsoft Corporation
svchost.exe		2,148 K	4,140 K	504	Host Process for Windows S...	Microsoft Corporation
vmacthlp.exe		1,220 K	1,176 K	800	VMware Activation Helper	VMware, Inc.
svchost.exe	< 0.01	75,948 K	75,680 K	852	Host Process for Windows S...	Microsoft Corporation
WUDFHost.exe		1,648 K	2,692 K	1588		
rundll32.exe	< 0.01	4,748 K	14,176 K	7532	Windows host process (Rund...	Microsoft Corporation
rundll32.exe	< 0.01	4,660 K	13,844 K	9916	Windows host process (Rund...	Microsoft Corporation
svchost.exe		15,092 K	16,556 K	1136	Host Process for Windows S...	Microsoft Corporation
svchost.exe	< 0.01	104,480 K	73,376 K	1220	Host Process for Windows S...	Microsoft Corporation
taskhostw.exe		6,044 K	15,816 K	7780	Host Process for Windows T...	Microsoft Corporation
sihost.exe		4,680 K	19,764 K	10288	Shell Infrastructure Host	Microsoft Corporation
taskeng.exe		1,188 K	6,272 K	8696		
v4pa_agent.exe	0.13	139,276 K	140,380 K	1236	vRealize Operations for Publi...	VMware, Inc.
v4pa_Horizon_compone...		1,372 K	3,524 K	2492		

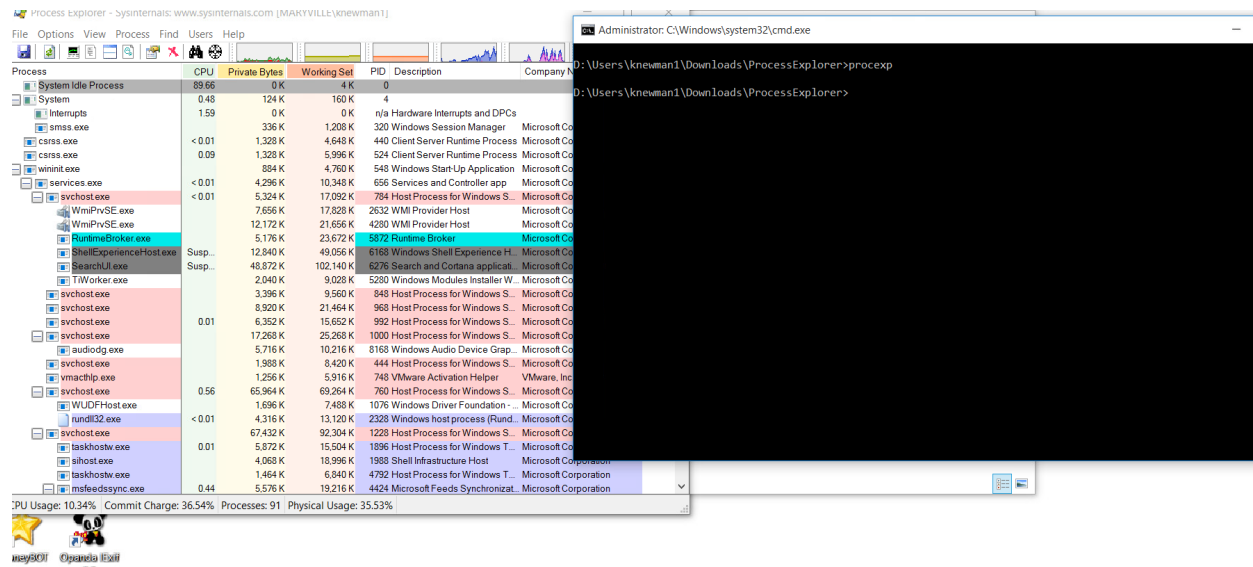
PU Usage: 11.01% Commit Charge: 43.61% Processes: 85 Physical Usage: 38.62%

yBOT Opanda EXPI 2.3

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## Course Textbook Exercise 5.2 Using Process Explorer



The screenshot displays two windows from a Windows operating system. The left window is 'Process Explorer' from Sysinternals, showing a list of running processes. The right window is a Google Chrome browser displaying the Google homepage.

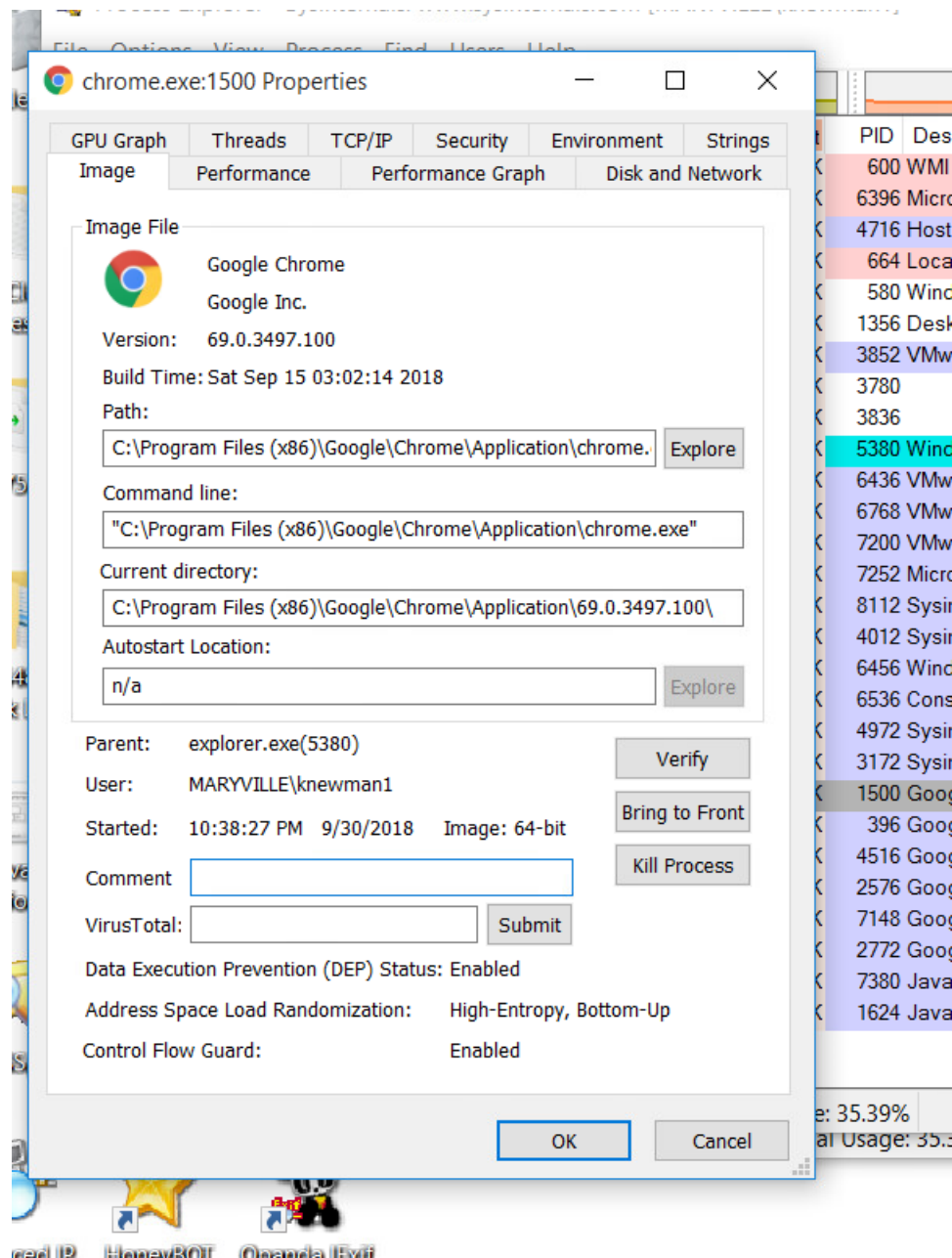
**Process Explorer - Sysinternals: www.sysinternals.com [MARYVILLE\knewman1]**

Process	CPU	Private Bytes	Working Set	PID	Description	Company Name
WinAppSrv.exe	<0.01	1,396 K	7,420 K	600	WMI Performance Reverse A...	Microsoft Corporation
SearchIndexer.exe	<0.01	23,452 K	24,516 K	6396	Microsoft Windows Search In...	Microsoft Corporation
svchost.exe		2,196 K	12,376 K	4716	Host Process for Windows S...	Microsoft Corporation
lsass.exe		6,160 K	18,788 K	664	Local Security Authority Proc...	Microsoft Corporation
winlogon.exe		1,892 K	9,824 K	580	Windows Logon Application	Microsoft Corporation
dwm.exe	0.22	40,864 K	70,212 K	1356	Desktop Window Manager	Microsoft Corporation
vmtoolsd.exe	<0.01	3,560 K	14,180 K	3652	VMware Horizon	VMware, Inc.
lsmhost.exe		3,036 K	8,444 K	3700		
lsmhost.exe		2,776 K	8,012 K	3836		
explorer.exe	0.11	31,556 K	90,656 K	6380	Windows Explorer	Microsoft Corporation
vmtoolsd.exe	0.03	3,788 K	13,928 K	6436	VMware Tools Core Service	VMware, Inc.
VMwareViewClipboard.exe	0.01	4,272 K	14,316 K	6768	VMware Horizon Clipboard S...	VMware, Inc.
VMWVpHelper.exe		1,664 K	6,808 K	7200	VMware Horizon View Perso...	VMware, Inc.
OneDrive.exe		10,712 K	32,848 K	7252	Microsoft OneDrive	Microsoft Corporation
procexp.exe		2,948 K	9,832 K	8112	Sysinternals Process Explorer	Sysinternals - www.sysinter...
procexp64.exe	1.36	13,868 K	31,000 K	4012	Sysinternals Process Explorer	Sysinternals - www.sysinter...
cmd.exe		1,612 K	2,916 K	6456	Windows Command Process...	Microsoft Corporation
conhost.exe		10,520 K	14,264 K	6536	Console Window Host	Microsoft Corporation
procexp.exe		2,852 K	8,236 K	4972	Sysinternals Process Explorer	Sysinternals - www.sysinter...
procexp64.exe	0.44	18,552 K	40,260 K	3172	Sysinternals Process Explorer	Sysinternals - www.sysinter...
chrome.exe	<0.01	2,852 K	19,372 K	1552	Google Chrome	Google Inc.
chrome.exe		1,720 K	6,852 K	396	Google Chrome	Google Inc.
chrome.exe		1,652 K	7,616 K	4516	Google Chrome	Google Inc.
chrome.exe	<0.01	13,388 K	21,728 K	2576	Google Chrome	Google Inc.
chrome.exe		47,284 K	74,232 K	7148	Google Chrome	Google Inc.
chrome.exe		12,584 K	19,488 K	2772	Google Chrome	Google Inc.
lupdate.exe	<0.01	2,208 K	11,552 K	7380	Java Update Scheduler	Oracle Corporation
lupdate.exe	<0.01	3,780 K	14,608 K	1624	Java Update Checker	Oracle Corporation

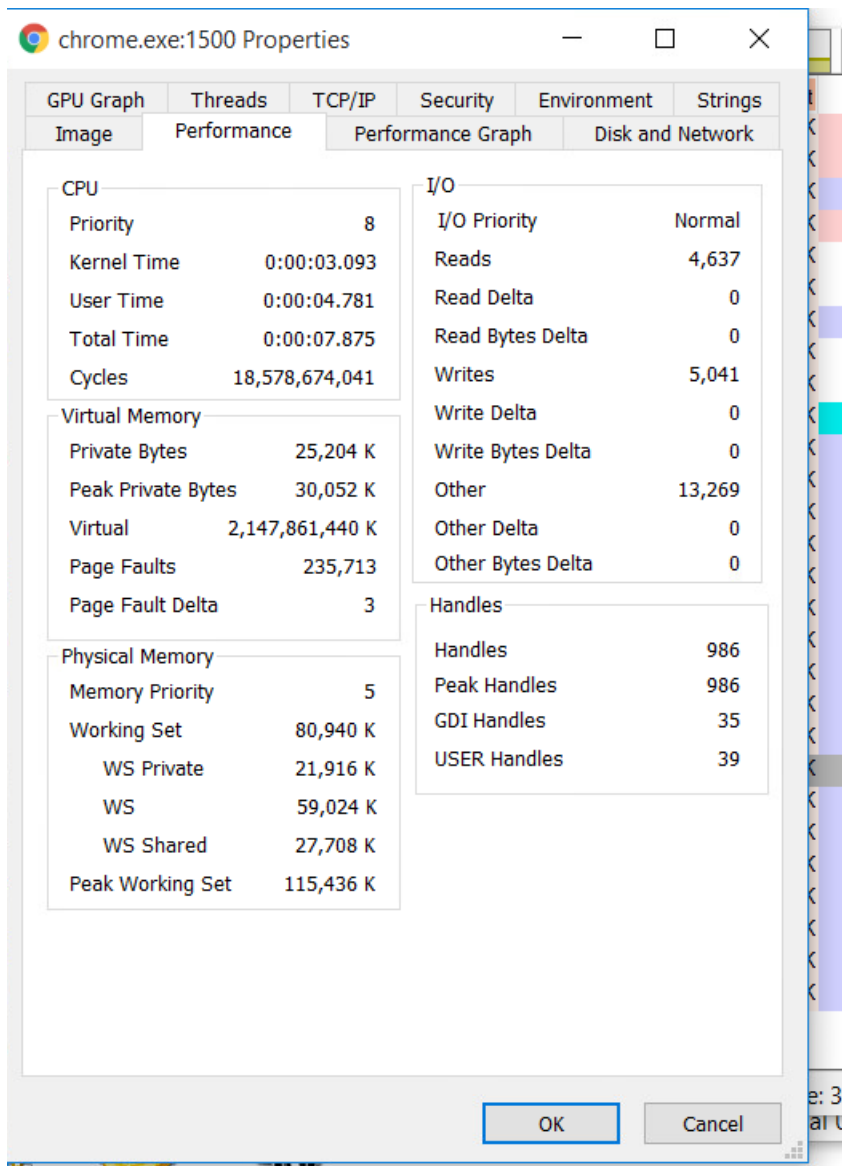
CPU Usage: 4.27% Commit Charge: 35.98% Processes: 91 Physical Usage: 35.47%  
CPU Usage: 4.00% Commit Charge: 35.96% Processes: 91 Physical Usage: 35.47%

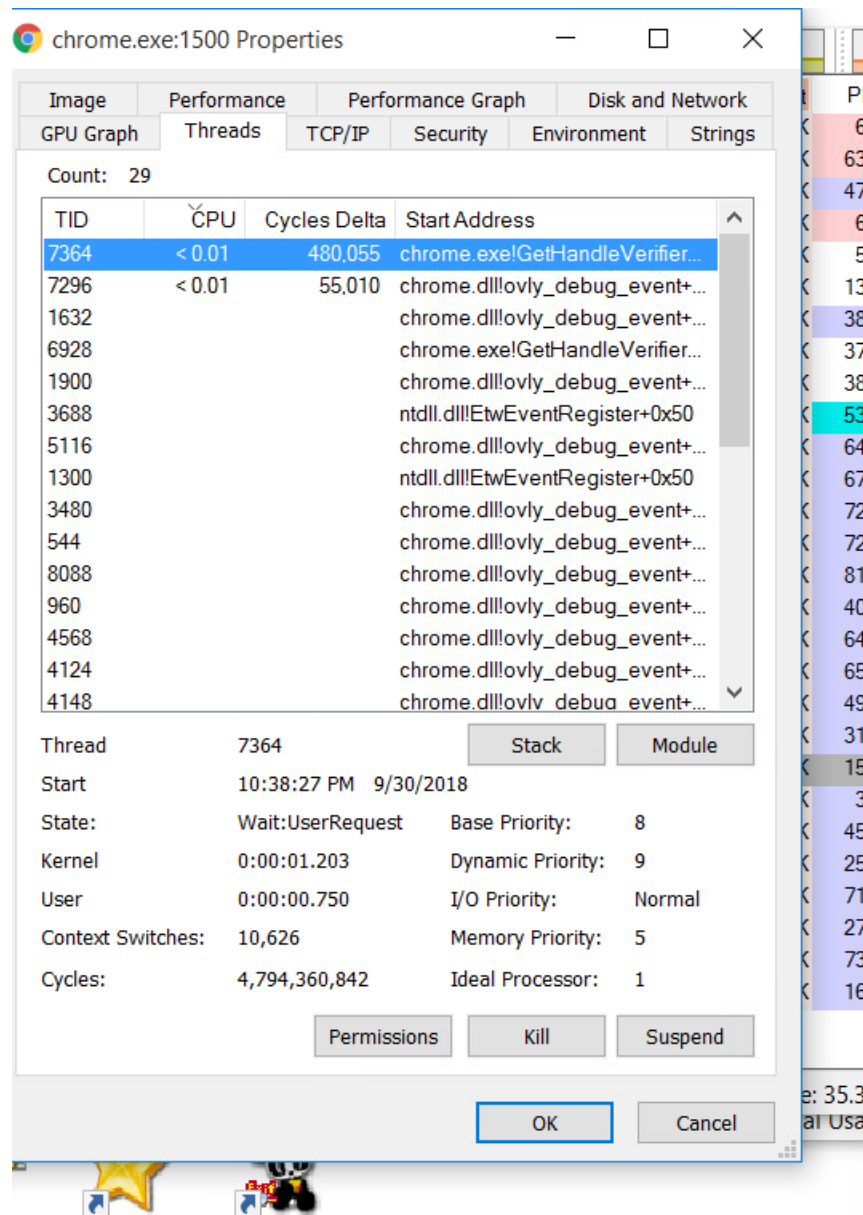
**Google Chrome**

Search Google or type a URL









chrome.exe:1500 Properties

Image Performance Performance Graph Disk and Network  
GPU Graph Threads TCP/IP Security Environment Strings

Count: 29

TID	CPU	Cycles Delta	Start Address
7364	< 0.01	480,055	chrome.exe!GetHandleVerifier...
7296	< 0.01	55,010	chrome.dll!ovly_debug_event+...
1632			chrome.dll!ovly_debug_event+...
6928			chrome.exe!GetHandleVerifier...
1900			chrome.dll!ovly_debug_event+...
3688			ntdll.dll!EtwEventRegister+0x50
5116			chrome.dll!ovly_debug_event+...
1300			ntdll.dll!EtwEventRegister+0x50
3480			chrome.dll!ovly_debug_event+...
544			chrome.dll!ovly_debug_event+...
8088			chrome.dll!ovly_debug_event+...
960			chrome.dll!ovly_debug_event+...
4568			chrome.dll!ovly_debug_event+...
4124			chrome.dll!ovly_debug_event+...
4148			chrome.dll!ovly_debug_event+...

Thread: 7364 Stack Module

Start: 10:38:27 PM 9/30/2018

State: Wait:UserRequest Base Priority: 8

Kernel: 0:00:01.203 Dynamic Priority: 9

User: 0:00:00.750 I/O Priority: Normal

Context Switches: 10,626 Memory Priority: 5

Cycles: 4,794,360,842 Ideal Processor: 1

Permissions Kill Suspend

OK Cancel

chrome.exe:1500 Properties

Stack for thread 7364

0	ntoskrnl.exe!KeSynchronizeExecution+0x5576
1	ntoskrnl.exe!KeWaitForMultipleObjects+0x1650
2	ntoskrnl.exe!KeWaitForMultipleObjects+0x12da
3	ntoskrnl.exe!KeWaitForMutexObject+0x38b
4	ntoskrnl.exe!KeAlertThread+0x11c9
5	ntoskrnl.exe!KeResetEvent+0x266
6	ntoskrnl.exe!KeWaitForMultipleObjects+0x1916
7	ntoskrnl.exe!KeWaitForMultipleObjects+0x1299
8	ntoskrnl.exe!KeWaitForMultipleObjects+0x3a0
9	ntoskrnl.exe!ObWaitForMultipleObjects+0x2b7
10	ntoskrnl.exe!PsSetProcessPriorityByClass+0x6da
11	ntoskrnl.exe!setjmpex+0x6a93
12	ntdll.dll!ZwWaitForMultipleObjects+0xa
13	KERNELBASE.dll!WaitForMultipleObjectsEx+0xef

Refresh Copy Copy All OK

Start: 10:38:27 PM 9/30/2018

State: Wait:UserRequest Base Priority: 8

Kernel: 0:00:01.203 Dynamic Priority: 8

User: 0:00:00.750 I/O Priority: Normal

Context Switches: 10,756 Memory Priority: 5

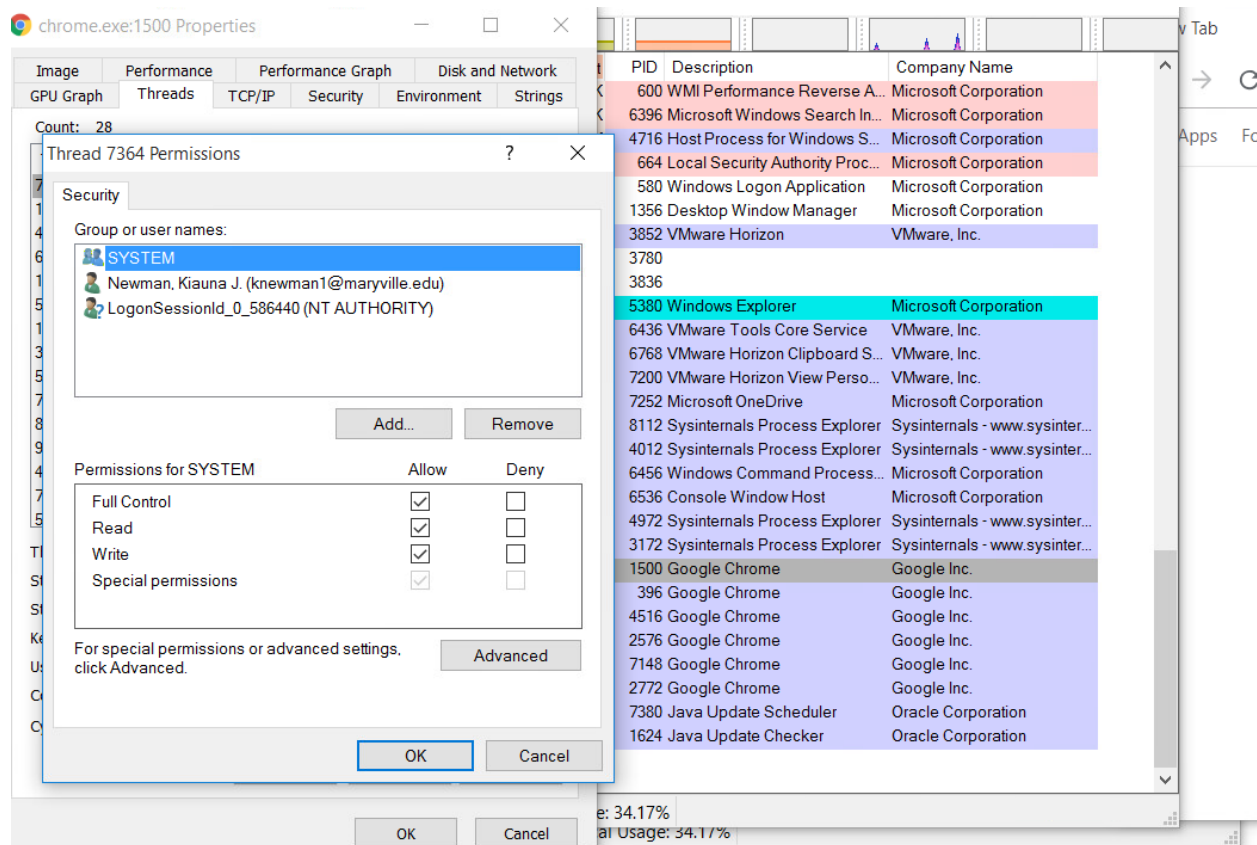
Cycles: 4,808,960,890 Ideal Processor: 1

Permissions Kill Suspend

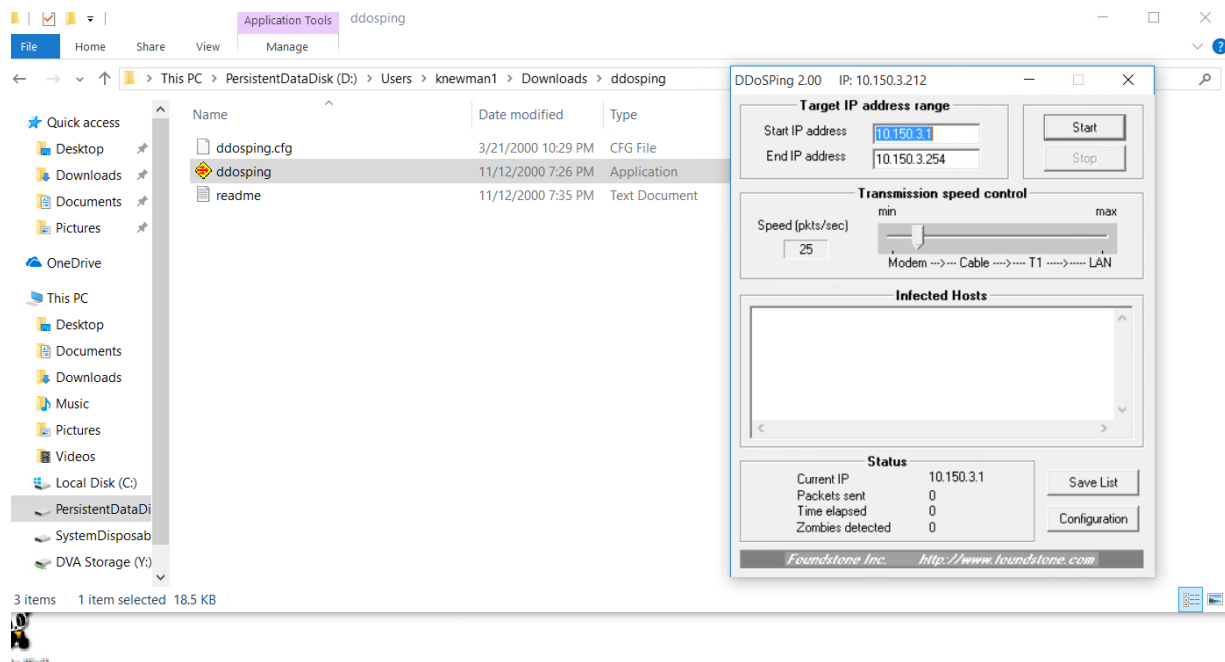
OK Cancel

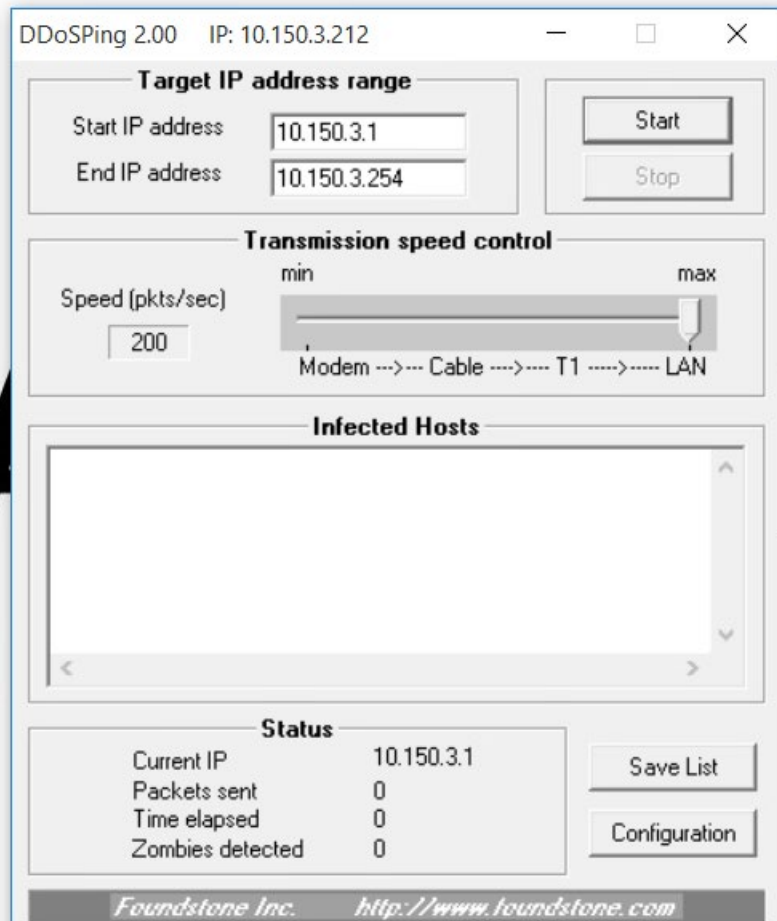
PID	Description	Company Name
600	WMI Performance Reverse A...	Microsoft Corporation
396	Microsoft Windows Search In...	Microsoft Corporation
716	HostProcess for Windows S...	Microsoft Corporation
664	Local Security Authority Proc...	Microsoft Corporation
380	Windows Logon Application	Microsoft Corporation
356	Desktop Window Manager	Microsoft Corporation
352	VMware Horizon	VMware, Inc.
780		
336		
380	Windows Explorer	Microsoft Corporation
336	VMware Tools Core Service	VMware, Inc.
768	VMware Horizon Clipboard S...	VMware, Inc.
200	VMware Horizon View Perso...	VMware, Inc.
352	Microsoft OneDrive	Microsoft Corporation
112	Sysinternals Process Explorer	Sysinternals - www.sysinter...
112	Sysinternals Process Explorer	Sysinternals - www.sysinter...
356	Windows Command Process...	Microsoft Corporation
336	Console Window Host	Microsoft Corporation
772	Sysinternals Process Explorer	Sysinternals - www.sysinter...
772	Sysinternals Process Explorer	Sysinternals - www.sysinter...
1500	Google Chrome	Google Inc.
396	Google Chrome	Google Inc.
4516	Google Chrome	Google Inc.
2576	Google Chrome	Google Inc.
7148	Google Chrome	Google Inc.
2772	Google Chrome	Google Inc.
7380	Java Update Scheduler	Oracle Corporation
1624	Java Update Checker	Oracle Corporation

Free Space: 34.28%  
Total Usage: 34.28%



## Course Textbook Exercise 6.1 Scanning for DDoS Programs





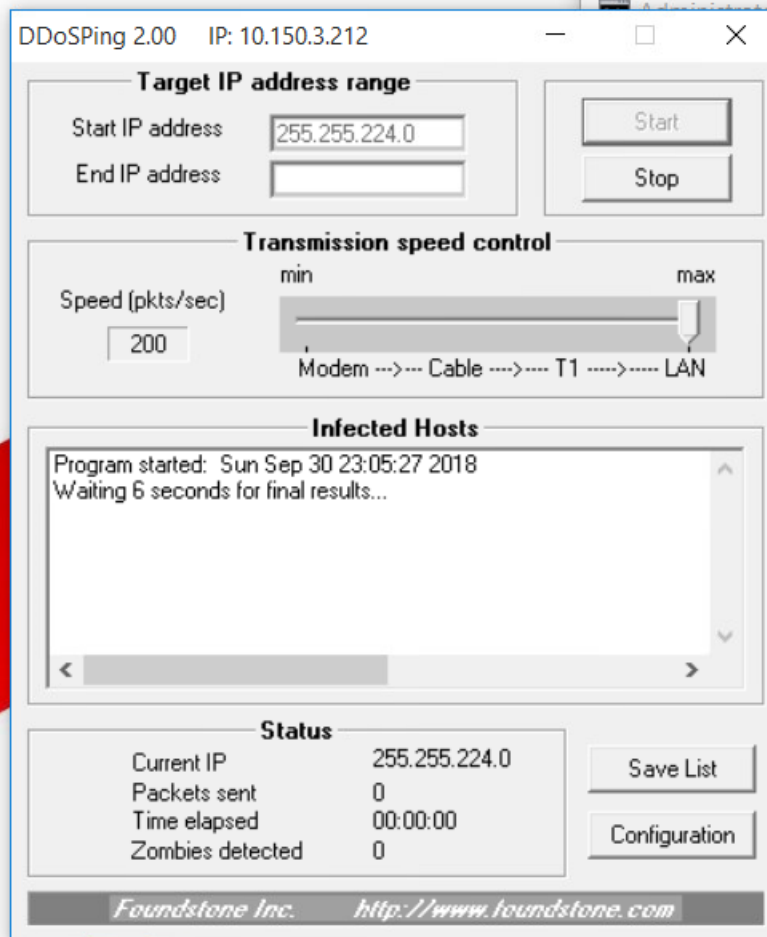
```
Administrator: C:\Windows\system32\cmd.exe
Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : ad.maryville.edu
    Description . . . . . : Intel(R) 82574L Gigabit Network Connection
    Physical Address. . . . . : 00-50-56-8B-29-DF
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    Link-local IPv6 Address . . . . . : fe80::5d39:4036:fc2:b626%5(Preferred)
    IPv4 Address. . . . . : 10.150.3.212(Preferred)
    Subnet Mask . . . . . : 255.255.224.0
    Lease Obtained. . . . . : Sunday, September 30, 2018 10:29:19 PM
    Lease Expires . . . . . : Wednesday, October 3, 2018 10:29:22 PM
    Default Gateway . . . . . : 10.150.0.1
    DHCP Server . . . . . : 10.1.1.4
    DHCPv6 IAID . . . . . : 50352214
    DHCPv6 Client DUID. . . . . : 00-01-00-01-23-20-98-F3-00-50-56-8B-29-DF
    DNS Servers . . . . . : 10.1.1.4
                           10.1.1.35
    NetBIOS over Tcpip. . . . . : Enabled

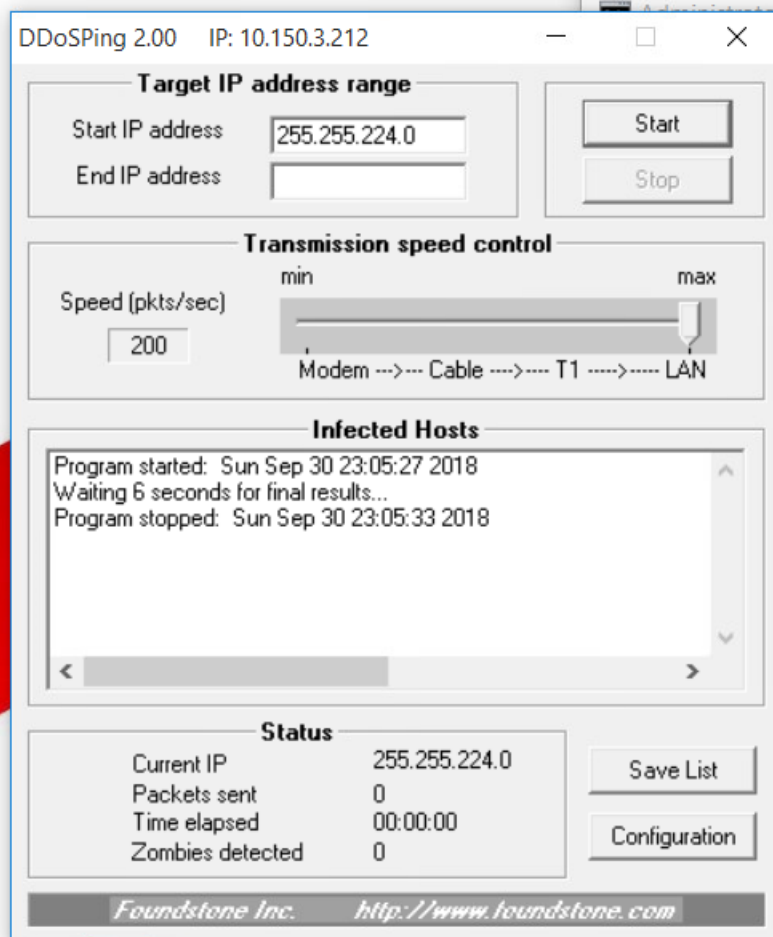
Tunnel adapter isatap.ad.maryville.edu:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : ad.maryville.edu
    Description . . . . . : Microsoft ISATAP Adapter #3
    Physical Address. . . . . : 00-00-00-00-00-00-E0
    DHCP Enabled. . . . . : No
    Autoconfiguration Enabled . . . . : Yes

D:\> 255.255.224.0
```

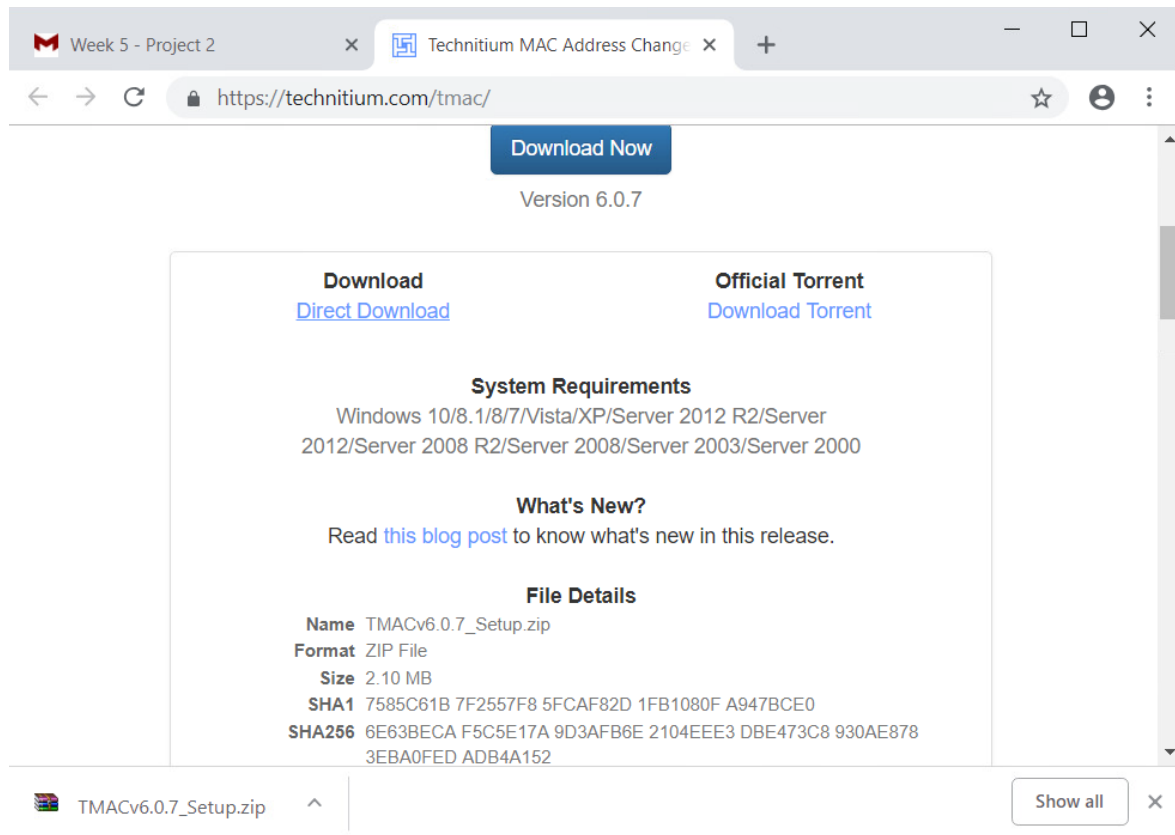


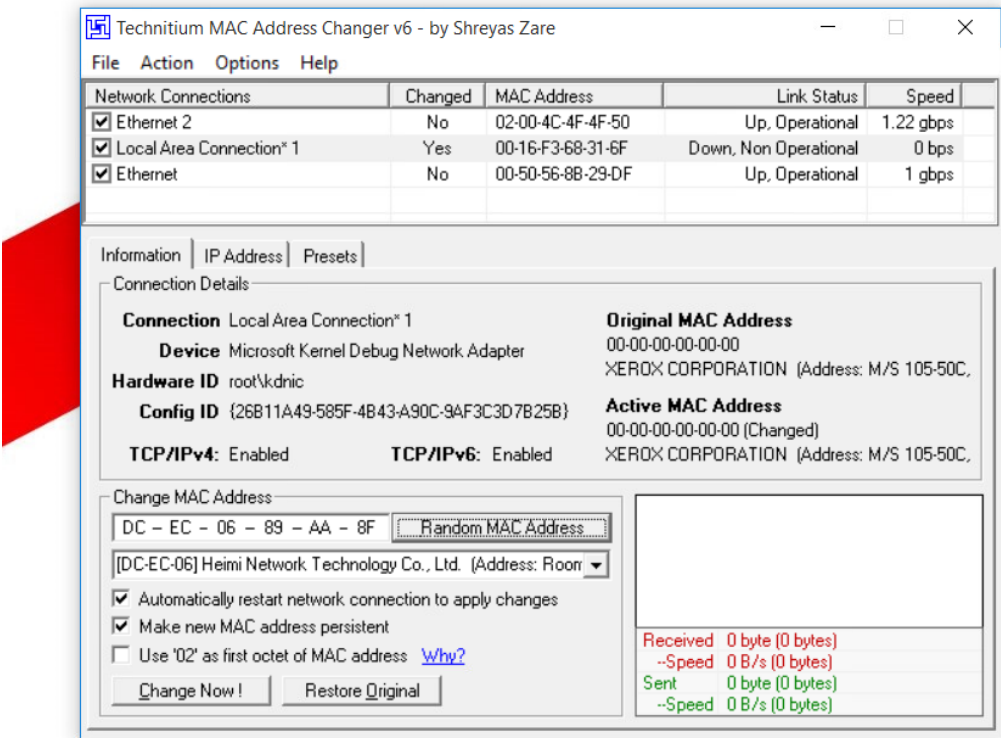
D:\> 255.255.224



Course Textbook Exercise 6.2 Using SMAC to Spoof Your MAC Address







V I  
R S

Technitium MAC Address Changer v6 - by Shreyas Zare

FileActionOptionsHelp

Network Connections	Changed	MAC Address	Link Status	Speed
<input type="checkbox"/> Ethernet 2	No		Down, Non Operational	0 bps
<input checked="" type="checkbox"/> Local Area Connection* 1	No	00-00-00-00-00-00	Down, Non Operational	0 bps
<input checked="" type="checkbox"/> Ethernet	No	00-50-56-8B-29-DF	Up, Operational	1 gbps

InformationIP AddressPresets

Connection Details

Connection Ethernet 2

Device Npcap Loopback Adapter

Hardware ID \*msloop

Config ID {03586045-C7E3-4B24-B382-FA354F1396F1}

TCP/IPv4: EnabledTCP/IPv6: Enabled

Original MAC Address

Active MAC Address

<Network Connection Disabled>

Change MAC Address

- - - - -

Random MAC Address

Automatically restart network connection to apply changes

Make new MAC address persistent

Use '02' as first octet of MAC address why?

Change Now!

Restore Original

Received 0 byte (0 bytes)

--Speed 0 B/s (0 bytes)

Sent 0 byte (0 bytes)

--Speed 0 B/s (0 bytes)

V

F

```
Command Prompt

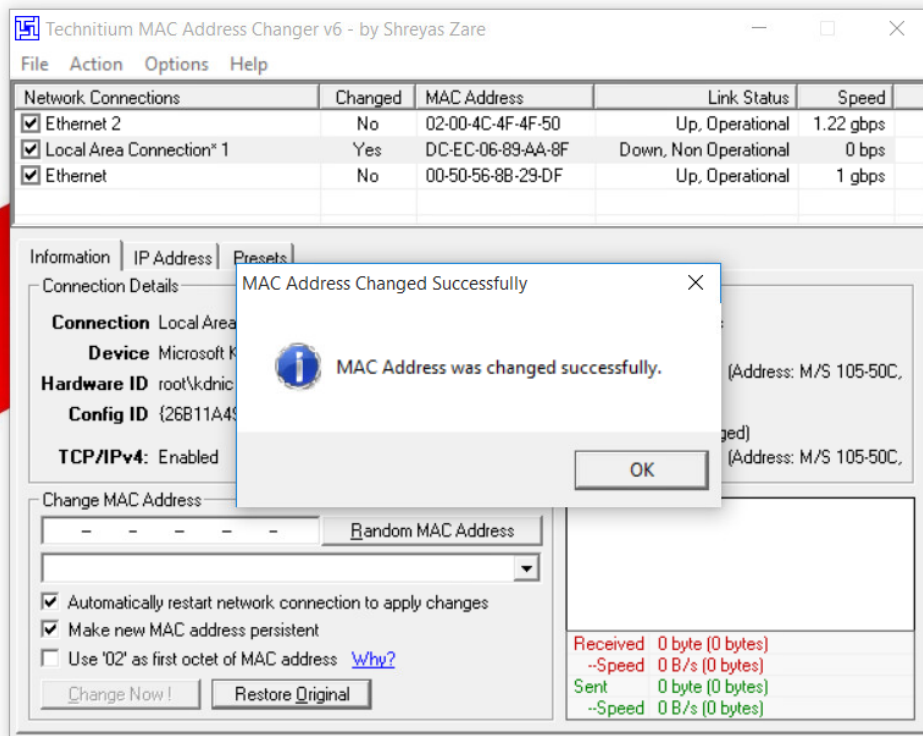
Ethernet adapter Ethernet:

    Connection-specific DNS Suffix . : ad.maryville.edu
    Description . . . . . : Intel(R) 82574L Gigabit Network Connection
    Physical Address. . . . . : 00-50-56-8B-29-DF
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    Link-local IPv6 Address . . . . . : fe80::5d39:4036:fc2:b626%5(Preferred)
    IPv4 Address. . . . . : 10.150.3.212(Preferred)
    Subnet Mask . . . . . : 255.255.224.0
    Lease Obtained. . . . . : Sunday, September 30, 2018 10:29:19 PM
    Lease Expires . . . . . : Wednesday, October 3, 2018 10:29:21 PM
    Default Gateway . . . . . : 10.150.0.1
    DHCP Server . . . . . : 10.1.1.4
    DHCPv6 IAID . . . . . : 50352214
    DHCPv6 Client DUID. . . . . : 00-01-00-01-23-20-98-F3-00-50-56-8B-29-DF
    DNS Servers . . . . . : 10.1.1.4
                          10.1.1.35
    NetBIOS over Tcpip. . . . . : Enabled

Tunnel adapter isatap.ad.maryville.edu:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . : ad.maryville.edu
    Description . . . . . : Microsoft ISATAP Adapter #3
    Physical Address. . . . . : 00-00-00-00-00-00-E0
    DHCP Enabled. . . . . : No
    Autoconfiguration Enabled . . . . : Yes

D:\Users\knewman>
```



# VIRUS

```

C:\> Command Prompt

Link-local IPv6 Address . . . . . : fe80::1482:bace:1899:6615%2(Preferred)
Autoconfiguration IPv4 Address. . : 169.254.102.21(Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 134348876
DHCPv6 Client DUID. . . . . : 00-01-00-01-23-20-98-F3-00-50-56-8B-29-DF
DNS Servers . . . . . : fec0:0:0:ffff::1%1
                       : fec0:0:0:ffff::2%1
                       : fec0:0:0:ffff::3%1
NetBIOS over Tcpip. . . . . : Enabled

Tunnel adapter isatap.{03586045-C7E3-4B24-B382-FA354F1396F1}:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix  :
Description . . . . . : Microsoft ISATAP Adapter
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes

Tunnel adapter isatap.ad.maryville.edu:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix  : ad.maryville.edu
Description . . . . . : Microsoft ISATAP Adapter #3
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes

D:\Users\knewman1>

```

## Deliverable (not in Course Textbook)

### IMPORTANT NOTE

EICAR cannot be held responsible when these files or your AV scanner in combination with these files cause any damage to your computer. **YOU DOWNLOAD THESE FILES AT YOUR OWN RISK.** Download these files only if you are sufficiently secure in the usage of your AV scanner. EICAR cannot and will not provide any help to remove these files from your computer. Please contact the manufacturer/vendor of your AV scanner to seek such help.

### Download area using the standard protocol http

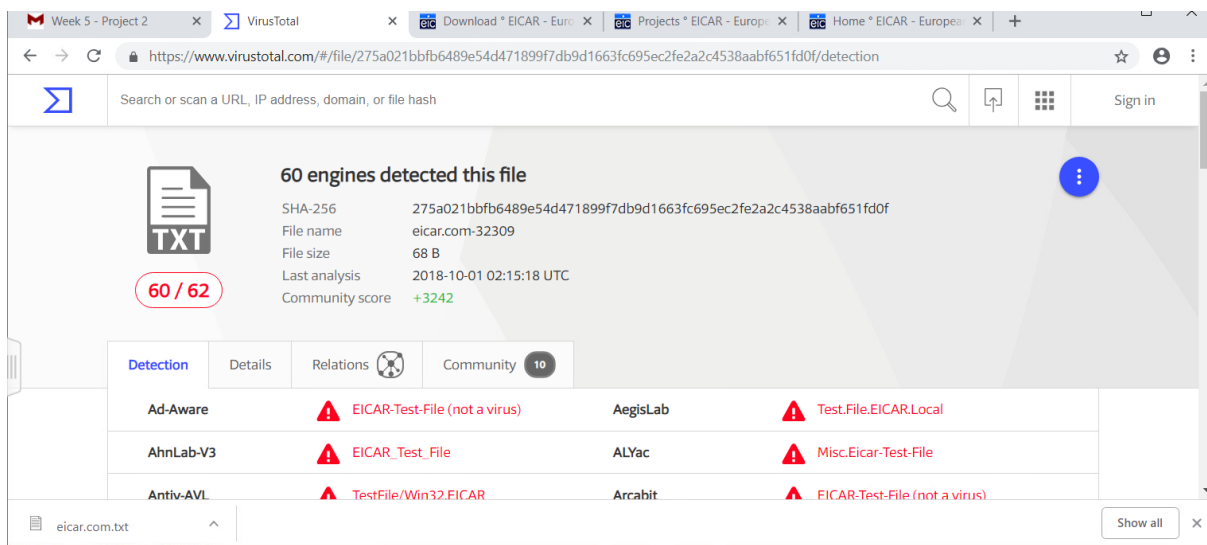
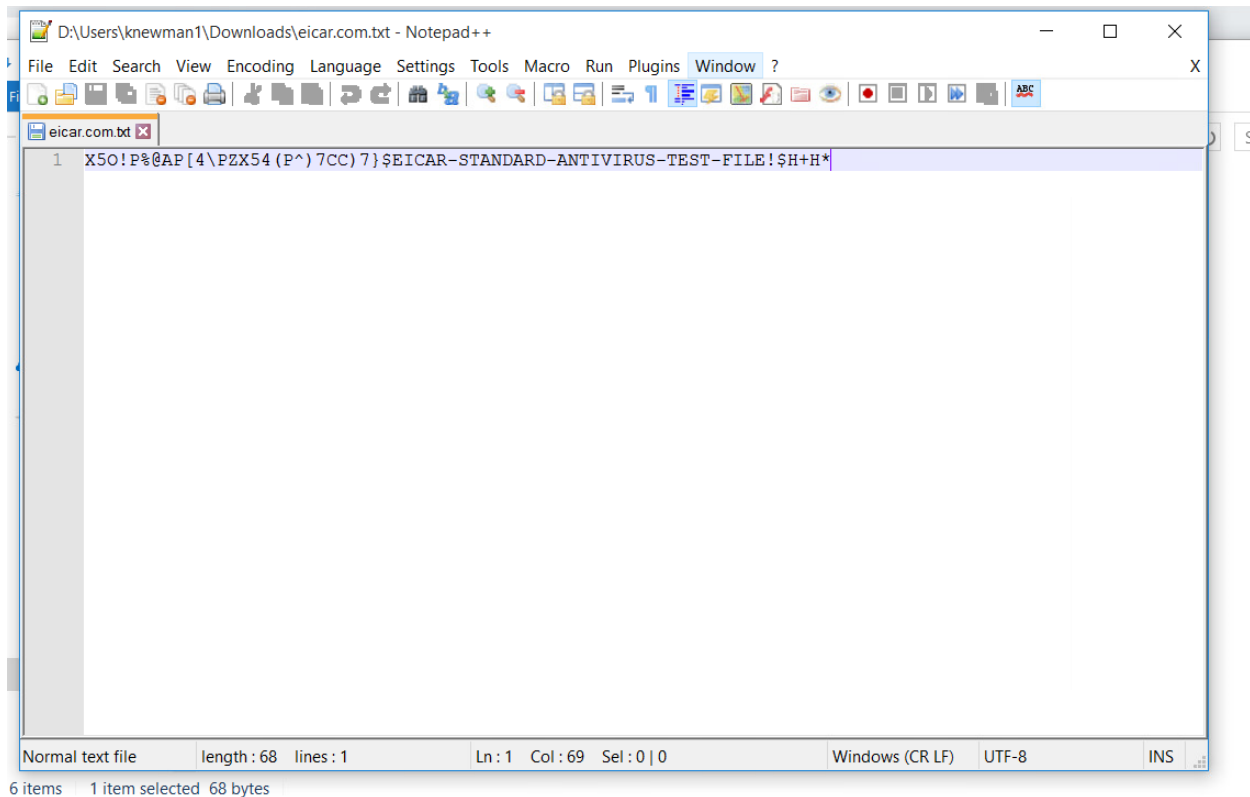
<a href="#">eicar.com</a>	<a href="#">eicar.com.txt</a>	<a href="#">eicar_com.zip</a>	<a href="#">eicarcom2.zip</a>
68 Bytes	68 Bytes	184 Bytes	308 Bytes

### Download area using the secure, SSL enabled protocol https

<a href="#">eicar.com</a>	<a href="#">eicar.com.txt</a>	<a href="#">eicar_com.zip</a>	<a href="#">eicarcom2.zip</a>
68 Bytes	68 Bytes	184 Bytes	308 Bytes

### How to delete the test file from your PC

We understand (from the many emails we receive) that it might be difficult for you to delete the test file from your



Week 5 - Project 2 x ASCII to Hex - Free text c x eic Download \* EICAR - Euro x eic Projects \* EICAR - Europe x eic Home \* EICAR - Europe x +

https://www.asciitohex.com

# ASCII to Hex

## ...and other free text conversion tools

**Text (ASCII / ANSI)**

X5Q!P%@AP[4\ZX54(P^)7CC)7)\$EICAR-STANDARD-ANTIVIRUS-TEST-FILE!\$H+H\*

**Convert** **Highlight Text**

Automated threat monitoring that's not out of MSP range

LEARN MORE solarwinds msp

eicar.com.txt ^ Show all x

Week 5 - Project 2 x ASCII to Hex - Free text c x eic Download \* EICAR - Euro x eic Projects \* EICAR - Europe x eic Home \* EICAR - Europe x +

https://www.asciitohex.com

01000011 00101001 00110111 01111101  
00100100 01000101 01001001 01000011

**Convert** **Highlight Text**

**BASE64**

IFg1TyFQJUBBUFs0XFBaWDUOKFBekTdDQyk3fSRFSU  
NBUI1TVEFOREFSRC1BTIRJVKISVVMtVEVTVC1GSUXFIS  
RIK0gq

**Convert** **Highlight Text**

**Decimal**

32 88 53 79 33 80 37 64 65 80 91 52 92 80 90 88 53  
52 40 80 94 41 55 67 67 41 55 125 36 69 73 67 65 82  
45 83 84 65 78 68 65 82 68 45 65 78 84 73 86 73 82  
85 83 45 84 69 83 84 45 70 73 76 69 33 36 72 43 72  
42

**Convert** **Highlight Text**

eicar.com.txt ^ Show all x

