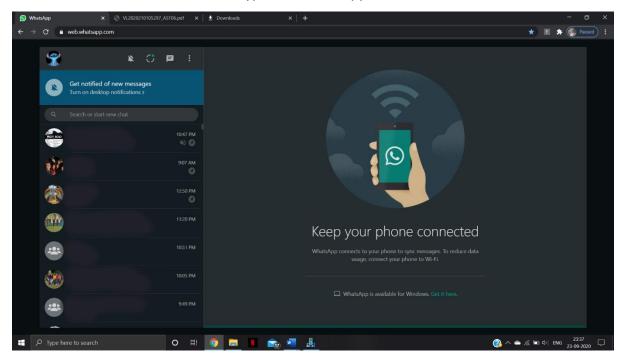


# School of Information Technology and Engineering Lab Assessment-VI, SEPTEMBER 2020 B.Tech., Fall-2020-2021

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COURSE NAME	INFORMATION SECURITY ANALYSIS & AUDIT
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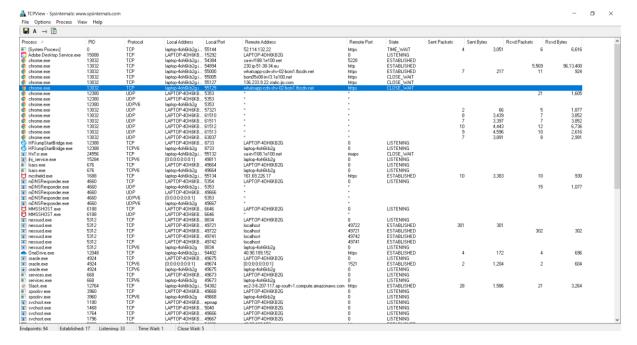
#### **Exercises on TCPView**

1. Create a new tab in chrome and type web.whatsapp.com



2. Take a snapshot showing the attributes of the process running in chrome.exe with WhatsApp

Process	PID	Protoc	Local Address	Local	Remote	Remot	State
		ol		Port	Address	e Port	
chrome.ex	1303	TCP	laptop-	5512	whatsapp-	https	CLOSE_WAI
е	2		4oh6kb2g.iballbaton.com	9	cdn-shv-02-		T
			.in		bom1.fbcdn.n		
					et		



3. Identify any two processes which are in listening state, established state and time-wait state.

## Listening:

0						
Process	PID	Protocol	Local Address	Local	Remote Address	Remote
				Port		Port
nessusd.exe	5312	TCP	0.0.0.0	8834	0.0.0.0	0
nessusd.exe	5312	TCPV6	[0:0:0:0:0:0:0:0]	8834	[0:0:0:0:0:0:0:0]	0
oracle.exe	4924	TCP	0.0.0.0	49675		0
oracle.exe	4924	TCPV6	[0:0:0:0:0:0:0:0]	49675	[0:0:0:0:0:0:0:0]	0
services.exe	668	TCP	0.0.0.0	49673		0
services.exe	668	TCPV6	[0:0:0:0:0:0:0:0]	49673	[0:0:0:0:0:0:0:0]	0

🚵 TCPView - Sysinternals: www.sysinternals.com

rile Options Process view	ile Options Process view neip										
<b>■</b> × → ②											
Process	PID	Protocol	Local Address	Local Port	Remote Address	Remote Port	State /				
nessusd.exe	5312	TCP	0.0.0.0	8834	0.0.0.0	0	LISTENING				
nessusd.exe	5312	TCPV6	[0:0:0:0:0:0:0:0]	8834	[0:0:0:0:0:0:0:0]	0	LISTENING				
■ oracle.exe	4924	TCP	0.0.0.0	49675	0.0.0.0	0	LISTENING				
■ oracle.exe	4924	TCPV6	[0:0:0:0:0:0:0:0]	49675	[0:0:0:0:0:0:0:0]	0	LISTENING				
services.exe	668	TCP	0.0.0.0	49673	0.0.0.0	0	LISTENING				
services.exe	668	TCPV6	[0:0:0:0:0:0:0:0]	49673	[0:0:0:0:0:0:0:0]	Ō	LISTENING				

#### **Established:**

Process	PID	Protocol	Local Address	Local	Remote Address	Remote
				Port		Port
chrome.exe	13032	TCP	192.168.1.103	58384	74.125.200.188	5228
chrome.exe	13032	TCP	192.168.1.103	55450	31.13.79.53	443
nessusd.exe	5312	TCP	127.0.0.1	49721	127.0.0.1	49722
nessusd.exe	5312	TCP	127.0.0.1	49722	127.0.0.1	49721

🚵 TCPView - Sysinternals: www.sysinternals.com File Options Process View Help **■** \* → ② PID Local Address Local Port Remote Address chrome.exe
chrome.exe
nessusd.exe
nessusd.exe 192.168.1.103 192.168.1.103 127.0.0.1 127.0.0.1 74.125.200.188 31.13.79.53 127.0.0.1 127.0.0.1 TCP TCP TCP TCP ESTABLISHED ESTABLISHED ESTABLISHED 13032 13032 54384 55450 5228 443 49721 49722 49722 5312

## Time\_Wait:

Process	PID	Protocol	Local Address	Local	Remote Address	Remote
				Port		Port
[System Process]	0	TCP	192.168.1.103	55540	52.109.56.34	443
[System Process]	0	TCP	192.168.1.103	55539	52.109.56.34	443
[System Process]	0	TCP	192.168.1.103	55538	52.109.56.34	443
[System Process]	0	TCP	192.168.1.103	55525	23.47.126.33	80
[System Process]	0	TCP	192.168.1.103	55524	184.27.59.98	80

뤒 TCPView - Sysinternals: www.sysinternals.com File Options Process View Help **₩** → **②** Process PID Protocol Local Address Local Port Remote Address Remote Port State / 52.109.56.34 52.109.56.34 52.109.56.34 52.109.56.34 23.47.126.33 184.27.59.98 TIME\_WAIT
TIME\_WAIT
TIME\_WAIT
TIME\_WAIT
TIME\_WAIT [System Process]
 [System Process]
 [System Process]
 [System Process]
 [System Process]
 [System Process] TCP TCP TCP TCP TCP 443 443 443 80 192.168.1.103 55540 0 0 0 0 192.168.1.103 192.168.1.103 192.168.1.103 192.168.1.103 55539 55538 55525 55524

80

4. Identify any two processes which are using TCP protocol, TCPV6, UDP protocol and UDPV6.

### TCP:

Process	PID	Protocol	Local Address	Local	Remote	Remote	State
				Port	Address	Port	
chrome.exe	13032	TCP	192.168.1.103	58384	74.125.200.188	5228	Established
chrome.exe	13032	TCP	192.168.1.103	55450	31.13.79.53	443	Established
nessusd.exe	5312	TCP	127.0.0.1	49721	127.0.0.1	49722	Established
nessusd.exe	5312	TCP	127.0.0.1	49722	127.0.0.1	49721	Established

<u> TCPView</u> - Sysinternals: www.sysinternals.com

File Options Process View Help

Process	PID	Protocol /	Local Address	Local Port	Remote Address	Remote Port	State		
chrome.exe chrome.exe nessusd.exe nessusd.exe	13032 13032 5312 5312	TCP TCP TCP TCP	192.168.1.103 192.168.1.103 127.0.0.1 127.0.0.1	54384 55450 49721 49722	74.125.200.188 31.13.79.53 127.0.0.1 127.0.0.1	5228 443 49722 49721	ESTABLISHED ESTABLISHED ESTABLISHED ESTABLISHED		

## TCPV6:

Process	PID	Protocol	Local Address	Local	Remote	Remote	State
				Port	Address	Port	
nessusd.exe	5312	TCPV6	[0:0:0:0:0:0:0]	8834	[0:0:0:0:0:0:0:0]	0	Listening
oracle.exe	4924	TCPV6	[0:0:0:0:0:0:0]	49675	[0:0:0:0:0:0:0:0]	0	Listening
services.exe	668	TCPV6	[0:0:0:0:0:0:0:0]	49673	[0:0:0:0:0:0:0:0]	0	Listening
spoolsy.exe	3960	TCPV6	[0:0:0:0:0:0:0:0]	49668	[0:0:0:0:0:0:0:0]	0	Listening

🔬 TCPView - Sysinternals: www.sysinternals.com File Options Process View Help

Process	PID	Protocol /	Local Address	Local Port	Remote Address	Remote Port	State	
nessusd.exe roracle.exe services.exe spoolsv.exe	5312 4924 668 3960	TCPV6 TCPV6 TCPV6 TCPV6	[0:0:0:0:0:0:0:0] [0:0:0:0:0:0:0:0] [0:0:0:0:0:0:0:0] [0:0:0:0:0:0:0:0]	8834 49675 49673 49668	[0:0:0:0:0:0:0] [0:0:0:0:0:0:0] [0:0:0:0:0:0:0] [0:0:0:0:0:0:0]	0 0 0 0	LISTENING LISTENING LISTENING LISTENING	

### UDP:

Process	PID	Protocol	Local Address	Local	Remote	Remote
				Port	Address	Port
chrome.exe	12380	UDP	0.0.0.0	5353	*	*
chrome.exe	12380	UDP	0.0.0.0	5353	*	*
mDNSResponder.exe	4660	UDP	192.168.1.103	5353	*	*
mDNSResponder.exe	4660	UDP	0.0.0.0	49666	*	*

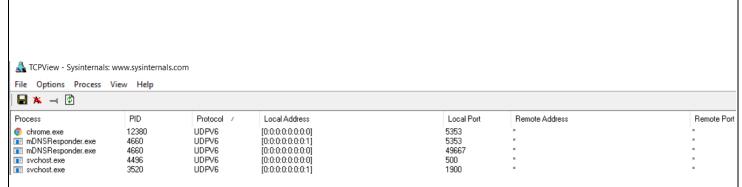
File Options Process View Help **■** 🗴 → 🖸 Local Port PID Protocol / Local Address Remote Address Remote Port chrome.exe
chrome.exe
mDNSResponder.exe
mDNSResponder.exe UDP UDP UDP UDP 12380 0.0.0.0 5353 0.0.0.0 192.168.1.103 12380 4660 5353 5353

0.0.0.0

### **UDPV6:**

🚠 TCPView - Sysinternals: www.sysinternals.com

Process	PID	Protocol	Local Address	Local	Remote	Remote
				Port	Address	Port
chrome.exe	12380	UDPV6	[0:0:0:0:0:0:0:0]	5353	*	*
mDNSResponder.exe	4660	UDPV6	[0:0:0:0:0:0:0:1]	5353	*	*
mDNSResponder.exe	4660	UDPV6	[0:0:0:0:0:0:0:0]	49667	*	*
scvhost.exe	4496	UDPV6	[0:0:0:0:0:0:0]	500	*	*
scvhost.exe	3520	UDPV6	[0:0:0:0:0:0:0:1]	1900	*	*



### **Exercises on Recover my Files**

- 1. Perform a search for specific type of file in a specific drive
- 2. Perform recovery of deleted files in a specific drive

Selected \D: drive to search files:



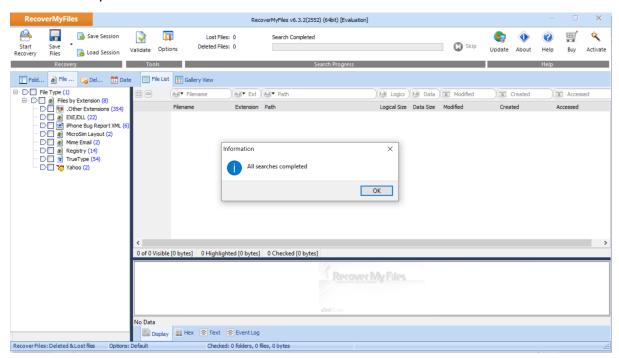
Selected "Search for deleted files, then search for selected "Lost File" types." option:



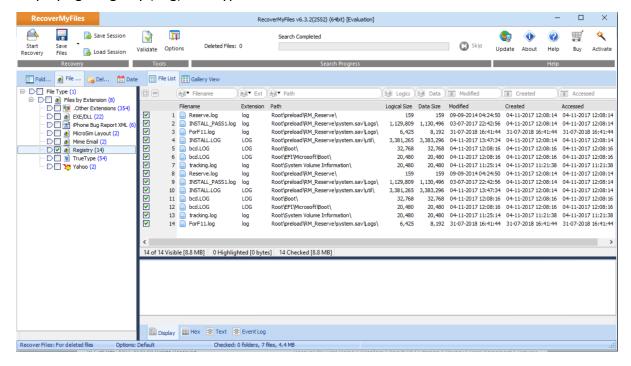
### Selected "Microsoft Office" file header:



## Search is completed:



# Displaying "Registry (.log)" file types searched:



\*\*\*\*\*\*