

D. B. J. COLLEGE, CHIPLUN Page No.: —

DEPARTMENT OF COMPUTER SCIENCE

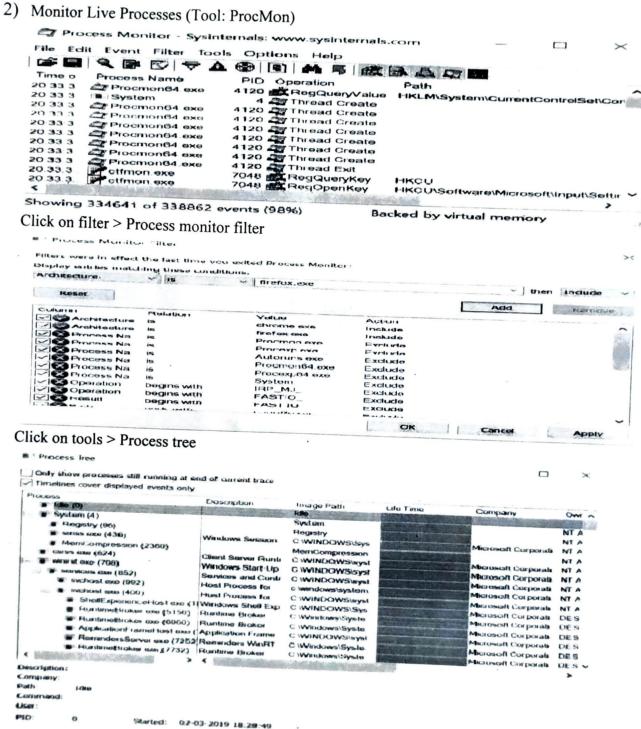
Expt. No.	Name: Piyush Pandurang Burate Class: TYCS Roll No.: 523
Date	Title of Experiment: Using Sysinternals tools for network tracking and process monitoring
	Sub titles: Assignment/ Problem Solution, Flow chart/Algorithm, Problem Listing, Input Screen, Output Screen, Comments (If any)
	as a second seco
	Aim: Using sysinternals tools for network tracking and process monitoring.
	- Check cucinternals tools
	- Check sysinternals tools - Monitor live process
	· '
	- Capture RAM
	- Capture TCP/UDP packets
	- Monitor Handdisk
	- Monitor virtual memory
	- Monitor cache mimory
	7
	Theory 8-
	1 Diskmon:
	Diskmon is an application that logs and displays
	all hard disk activity on a windows system. You can
	also minimize diskmon to your system. They where
	it act as a disk read activity and a red can when
12	there is disk write activity.
	Installing Diskmon is an easy as unzipping it
	and typing," diskmon". The means and toolbox
	buttons can be used to disable event capturing
	control the scrolling of the listview and to
Remark	save the list view contents to an ASCII Files
	To have Diskmon Function as a disk light
Signature	in your system tray select the optional minimize

	to tray menu item. Start Diskmon with a "11"
	command line switch. To reactive the diskmon
	raindow double click on the diskmon in the
15	tray create a shortcut in your program File
	Startup Folder.
	2) Process Monitor:-
	Process monitor is an advanced monitoring
	tool for windows that shown real time file
	system registry and process/thread activity.
	System registry and process/thread activity. It combines the features of two legacy systemal
	utilities.
	Process monitor includes powerful monitoring
	and filtering capabilities, includes
	- More data captured for operation input and output
	parameter
-	- Non distructive Filter allows you to set filters
	without losing data.
	- Configurable and modual columns for any event
	properly.
<i>y</i>	
	3 RAM capture:
	Digital Forensics experts understand the
	importance of remembering to perform a RAM
	capture on-sence so as to not leave valuable
(data in a computer memory dump enable
	investigations and examiners to do a full
	memory analysis and access data including
	· Browning history
	· Encayption keys
	• Chat message
	· Clipboard contents.

Practical 5: Using Sysinternals tools for Network Tracking and Process Monitoring:

Steps:

- 1) Check Sysinternals tools



Chose

Include Subtree

Click on filter > File summary

No.	accessed during	D BLACK.										
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1000 1000					7756						2574	C Windows System32 sections exe
1350246	061-468				4163			9		9	- 2	C Windows System 22 chross at 2 serv
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305297 2840 673 472 1 0 0 0 0 1386 C Windows/System02 www.nutf.dll 0 0 0 0 1386 C Windows/System02 www.nutf.dll 2014171 27720 454 454 0 0 0 0 0 0 1006 ii // Windows/System02 clean/03.dll					1		7	*				
201413 2720 0 0 0 1006 C/Windows/System/1/200404/3/0	305297										1366	C:Windows/System:32 winters! dil
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201385 2104 387 347 0 0 0 0 2 0 1005 C:Windows/System:122PHLPAPI									2	_	1005	C::Wandows/System:02:#HILPAPI DLE
(2465-16) 2065 333 332 0 0 0 0 0 783 C*Windows:System327mdl df 275278 1943 387 386 0 0 0 0 0 783 C*Windows:System327mdl df		-					-	0	0	0	783	O'Mindows:System@Zintdl dl

3) Capture RAM (Tool: RAMCapture) Open the Ramcapture tool.

Belkasoft Live RAM Capturer

Select output folder path:

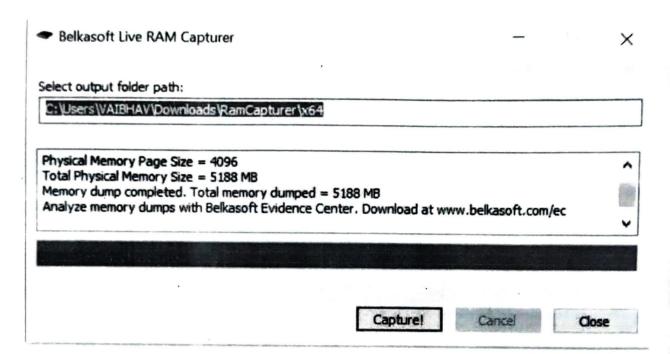
C: |Users |VAIBHAV |Downloads |RamCapturer |x64

Loading device driver ... Physical Memory Page Size = 4096 Total Physical Memory Size = 5188 MB

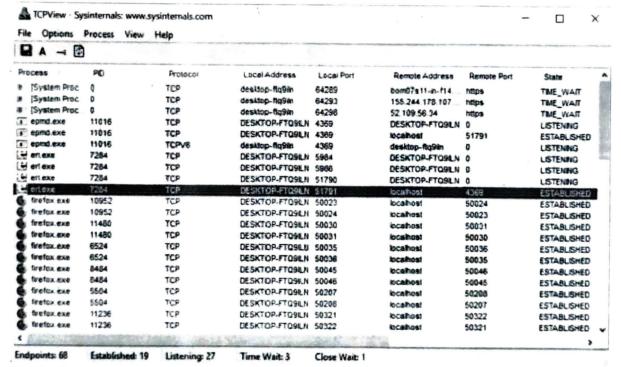
Capture!

Close

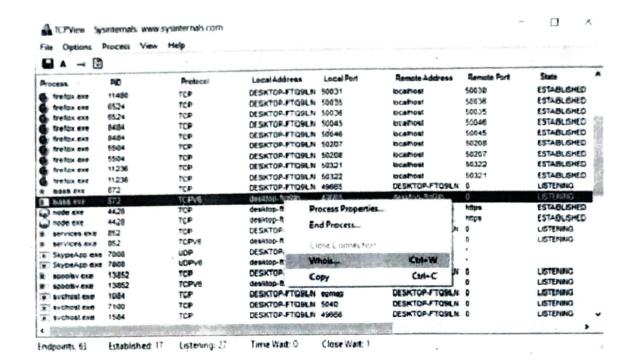
Click on capture.



4) Capture TCP/UDP packets (Tool: TcpView) Open the Tcpview tool.



Right click on any packet > whois



155.244.178.107.bc.googleusercontent.com

```
Domain ID: 1628918319_DOMAIN_COM-VRSN

Registrar WHOIS Server: whols.markmonitor.com

Registrar URL: http://www.markmonitor.com

Updated Date: 2018-10-16T09:35:19Z

Creation Date: 2008-11-17T15:58:29Z

Registry Expiry Date: 2019-11-17T15:58:29Z

Hegistrar: MarkMonitor Inc.

Registrar: MarkMonitor Inc.

Registrar IANA ID: 292

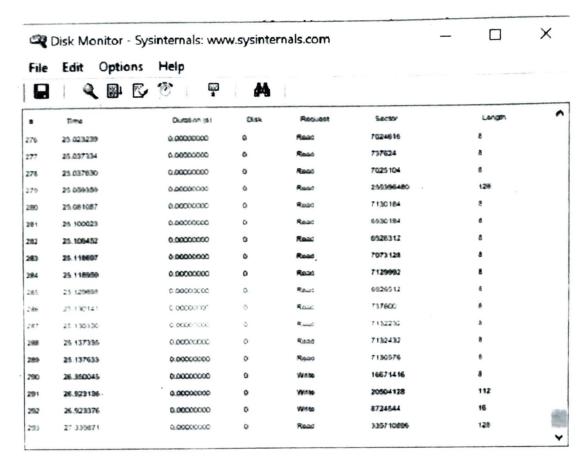
Incgistrar Abuse Contact Email: abusecomplaints@markmonitor.com

Registrar Abuse Contact Phone: +1.2089896740

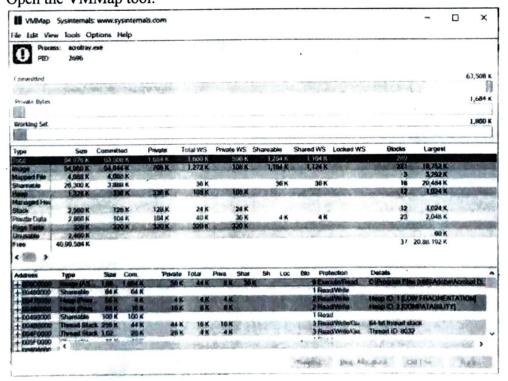
Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited https://icann.org/epp#clientTransferProhibited https://icann.org/epp#clientUpdateProhibited https://icann.org/epp#serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited https://icann.org/epp#serverTransferDomain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited Prohibited https://icann.org/epp#serverTransferDomain Status: serverUpdateProhibited https://icann.org/epp#serverTransferDomain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited Prohibited https://icann.org/epp#serverTransferDomain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited Prohibited https://icann.org/epp#serverTransferDomain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited Prohibited https://icann.org/epp#serverUpdateProhibited Prohibited https://icann.org/epp#serverUpdateProhibited Prohibited https://icann.org/epp#serverUpdateProhibited Prohibited https://icann.org/epp#serverUpdateProhibited Prohibited Prohibi
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OK

5) Monitor Hard Disk (Tool: DiskMon) Open the Diskmon tool.



6) Monitor Virtual Memory (Tool: VMMap) Open the VMMap tool.



7) Monitor Cache Memory (Tool: RAMMap) Open the RAMMap tool.