Cyber Law and Forensics (CS402)

Lab Assignment 5

U19CS012

- A.) Answer the Following Questions from the Given Evidence Files:
- (1) Determine the **USB devices** attached to the system.

Tool Used:

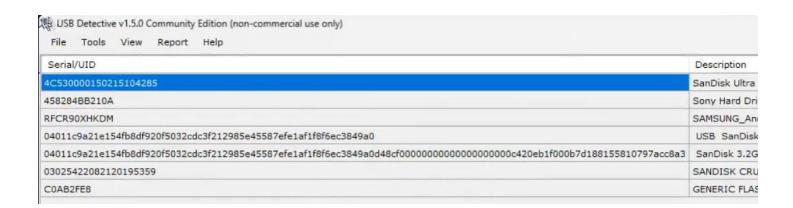
Offline Condition -> USB Detective

Online Condition -> Tools like USDdeview (working Copy)

File Used:

- 1. SYSTEM Hive
- 2. SOFTWARE Hive
- 3. NTUSER.DAT Hive
- 4. Setupapi Log
- 5. Amcache Hive

Above Files were extracted using FTK Imager.



Description	First Connected (IST/IST)	Last Connected (IST/IST	
SanDisk Ultra USB Device	25-01-2023 16:14:01	24-03-2023 13:45:33	
Sony Hard Drive USB Device	20-01-2023 15:43:39	21-03-2023 11:04:07	
SAMSUNG_Android	07-03-2023 11:07:56	07-03-2023 13:36:32	
USB SanDisk 3.2Gen1 USB Device		13-02-2023 12:31:40	
SanDisk 3.2Gen1			
SANDISK CRUZER BLADE			
GENERIC FLASH DISK			

Answer -

SanDisk Ultra USB Device

Sony Hard Drive IJSB Device

SAMSUNG_Android

USB SanDisk 3.2Gen1 USB Device

SanDisk 3.2Gen1

SANDISK CRUZER BLADE

GENERIC FLASH DISK

(2) Identify the recently opened PDF documents in the system.

Remember, the Registry Key "recentdocs", based on extension ".pdf".

Tool Used:

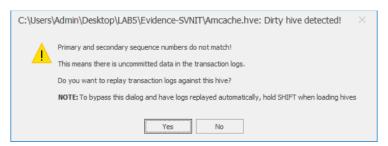
Registry Explorer by Eric Zimmerman

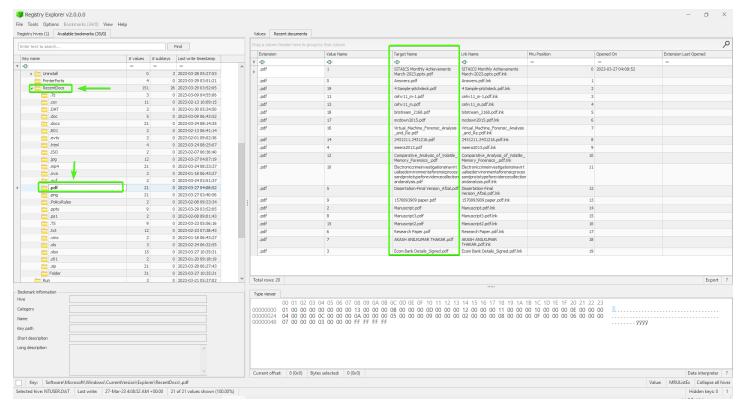
File Used:

NTUSER.DAT

Process followed:

- a.) Install the Registry Explorer Tool by Eric Zimmerman
- b.) Load the "NTUSER.DAT" in Registry Explorer (Select No -> Then Yes in Next Dialog Popup)





Answer -

	Target Name
	RBC
	SITAICS Monthly Achievements March-2023.pptx.pdf
	Answers.pdf
	4 Sample-pitchdeck.pdf
	cehv11_m-1.pdf
	cehv11_m.pdf
	bitstream_2168.pdf
	mcdown2015.pdf
	Virtual_Machine_Forensic_Analysis _and_Re.pdf
	2431211.2431216.pdf
	meera2013.pdf
	Comparative_Analysis_of_Volatile_ Memory_Forensicspdf
	Electroniccrimeinvestigationsinavirt ualisedenvironmentaforensicproces sandprototypeforevidencecollection andanalysis.pdf
	Dissertation-Final Version_Afzal.pdf
	1570893909 paper.pdf
	Manuscript.pdf
	Manuscript3.pdf
	Manuscript2.pdf
	Research Paper.pdf
	AKASH ANILKUMAR THAKAR.pdf
	Ecom Bank Details Signed.pdf

<u>Path</u>:

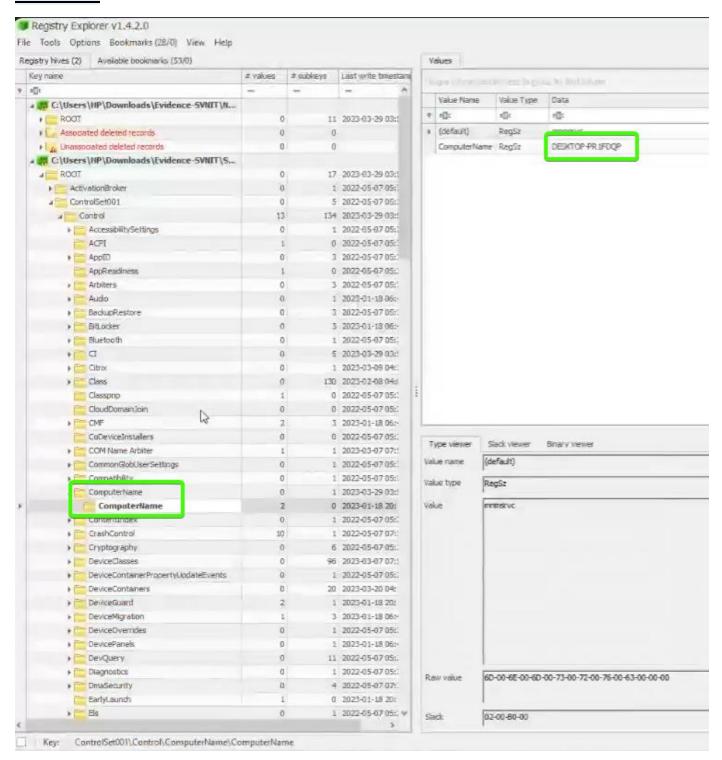
System (HKLM) \setminus Software \setminus Microsoft \setminus Windows \setminus Current Version \setminus RecentDocs

(3) What is the name of computer? - "DESKTOP-PR1FDQP"

Username is different from Computer Name (Not User Specific, System Specific [HKLM]).

Tool Used: Registry Explorer by Eric Zimmerman

File Used: NTUSER.DAT



Path: ControlSet001 \ Control \ ComputerName \ ComputerName

(4) What are the user accounts created in the system?

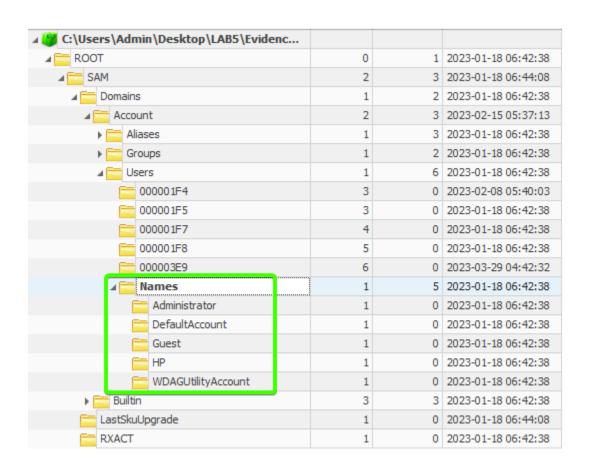
- ✓ SAM (Security Account Manager) Stores user related Information (Password is Stored in NTLM Hash{New Technology LAN Manager})
- ✓ SAM is located C: \ Windows \ System32 \ config \ SAM

Tool Used:

Registry Explorer by Eric Zimmerman

File Used:

SAM



Path: SAM\Domains\Account\Users\Names

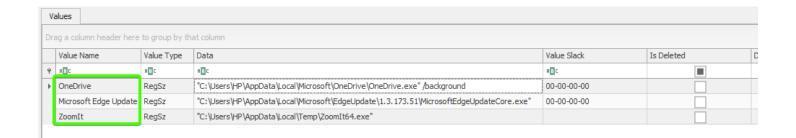
- (5) What are the files added to the Start-up location for current logged in user and entire system?
- 5.a) Files added for current logged in user

Tool Used:

Registry Explorer by Eric Zimmerman

File Used:

NTUSER.DAT



Path:

Software\Microsoft\Windows\CurrentVersion\Run

5.b) Files added for Entire System

Tool Used:

Registry Explorer by Eric Zimmerman

File Used:

SYSTEM



Dirty Hive - System related Files have been deleted.

Path:

HKLM\Software\Microsoft\Windows\CurrentVersion\Run

Not Found in HKLM, So Checking with SOFTWARE Hive.

File Used:

SOFTWARE

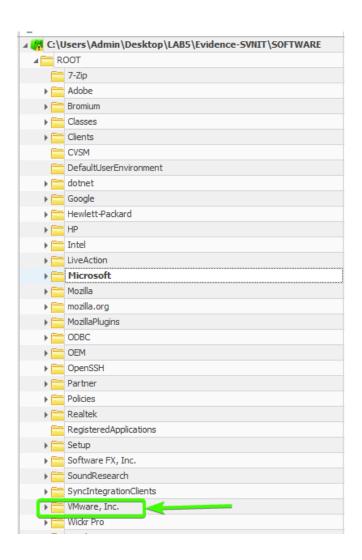
Value Name	Value Type	Data	Value Slack
RBC	RBC	R©C	RBC
SecurityHealth	RegExpandSz	%windir%\system3 <mark>2\SecurityHealthSystray.exe</mark>	00-00-00-00
RtkAudUService	RegSz	"C:\WINDOWS\System32\DriverStore\FileRepository (realtekservice.inf_ar)d64_1e9988599ad	D7-B4-60-05
AdobeGCInvoker-1.0	RegSz	"C:\Program Files (x86)\Common Files\Adobe\AdobeGCClien AGCInvokerUtility exe"	65-72-2E-45

Above 3 Software's will start for Entire System.

Path:

Microsoft\Windows\CurrentVersion\Run

(6) Identify which virtualization software was used by the current logged in user? - "VMWare"



Path: Microsoft

SUBMITTED BY:

U19CS012

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