WINDOWS LIVE RESPONSE

A quick reference guide

This quick reference guide (QRG) provides the first steps to be taken in windows systems in case of any incident. The QRG includes the important commands to be used quickly to collect volatile and select some important non-volatile data.

Collecting Volatile Data

No.	Task	Explanation
1	Open a trusted shell (External drive):\cmd.exe	Run cmd from your TD with administrator privileges
2	Record the system date and time	From the trusted cmd on your TD type the below: • echo "Case Number #, Investigator Name: (your name), Start Time and date:">> (path where to store)\date_time.txt • echo. date >> (path where to store)\date_time.txt • echo. time >> (path where to store)\date_time.txt
3	Record the watch (real) date and time	echo "Watch date and time are: : (Enter the real time here)" >> (path where to store)\date_time.txt
4	Determine open ports	 netstat –ano >> (path where to store)\open_ports.txt netstat –rn >> (path where to store)\routing_table.txt
5	List apps associated with open ports	netstat –anob >> (path where to store)\open_ports_with_apps.txt or tcpvcon –a –c -n /accepteula >> open_ports.csv Note: Tcpvcon tool can be downloaded from Sysinternals - check Resources section
6	List all running processes and services	List all services that are running under each process tasklist /svc >> (path where to store)\open_processes1.txt tasklist /v >> (path where to store)\open_processes2.txt net start >> (path where to store)\services.txt Alternatives: pslist /accepteula >> (path where to store)\running_processes.txt psservice /accepteula >> (path where to store)\running_services.txt Note: these tools can be downloaded from Sysinternals - check Resources section
7	List recent connections	 arp -a >> (path where to store)\arpcache.txt nbtstat -c >> (path where to store)\netbios_connections.txt
8	Get clipboard contents	If powershell is installed in the machine, run: • powershell get-clipboard >> (path where to store)\clipboard.txt
9	DNS cache	Ipconfig /displaydns >> (path where to store)\DNS_info.txt

10	List open files	List remotely opened file:
11	Capture Memory *Optional at this stage*	 mdd_1.3.exe -o (path where to store)\memoryDump.dd or memoryDD.bat -output (path where to store) Note: mdd_1.3.exe and memorydd.bat tools are free and can be downloaded online- check Resources section

Collecting Non-Volatile Data

No.	Task	Explanation
1	Capture IP info and system information and variables	 ipconfig /all >> (path where to store)\IP_Information.txt systeminfo >> (path where to store)\SystemInfo.txt set >> (path where to store)\env_var.txt
2	Determine who is logged in	Check who is logged on locally/remotely on the machine: psloggedon /accepteula >> (path where to store)\whoison.txt or logonsessions /accepteula >> (path where to store)\whoison.txt Note: these tools can be downloaded from Sysinternals - check Resources section Check sessions that are connected to the target machine net sessions >> (path where to store)\connected_sessions.txt
3	Record creation, modification, and access times of all files	 Export all directories with files recursively with last access times on the target machine: dir /t:a /a /s /o:d (targetDrive):\ >> (path where to store)\All_File_List_Access.txt Export all directory with files recursively with last modification times on a target drive: dir /t:w /a /s /o:d (targetDrive):\ >> (path where to store)\All_File_List_Modified.txt Export all directory with files recursively with creation times on a target drive: Export all directory with files recursively with creation times on a target drive: dir /t:c /a /s /o:d (targetDrive):\ >> (path where to store)\All_File_List_Creation.txt
4	List schedule tasks	schtasks /query /v /FO csv >> (path where to store)\schedual.csv
5	Capture the mapped drives and shares	 Net use >> (path where to store)\mapped_drives.txt Net share >> (path where to store)\shares.txt
6	List all installed drivers	driverquery /SI >> (path where to store)\drives.txt

		Collect the below Hives manually by going to:
	Daviston	BootDrive:\Windows\System32\config\
		o SAM
		 Security
		 Software
		o System
7		BootDrive:\Users\(Account name):
/	Registry	o Ntuser.dat
		Or
		 mkdir (path where to store)\registry\
		 robocopy BootDrive:\Windows\System32\config\
		destination sam security software system
		 copy BootDrive:\Users\% Username%\ntuser.dat
		destination
		Copy manually the below folder to where you save your
	Prefetch	evidences.
		BootDrive:\Windows\Prefetch
8		Or
		mkdir (path where to store)\prefetch\
		Copy BootDrive:\Windows\Prefetch\ (path where to)
	store)\prefetch\	
		There are many Events logs, based on the incident collect the
9	Event logs	important ones, copy the event logs to where you save your
		evidences (manually).
		BoodDrive:\Windows\System32\winevt\logs
		Or
		mkdir (path where to store)\events\
		, , ,
		wevtutil epl "Event Log Name" (path where to store) avents "Event Log Name" evty
	1	store)\events\"Event Log Name".evtx

After Completing the Collection

No.	Task	Explanation
1	Record system date and time (Completes your Timeline)	 echo "Time and Date of completion:" >> (path where to store)\date_time.txt date >> (path where to store)\date_time.txt time >> (path where to store)\date_time.txt
2	Document commands used during your response	doskey /history > (path where to store)\history.txt
3	OPTIONAL: Capture the entire HD	Using FTK comandline imager: • ftkimagerlist-drives • ftkimager source (path where to store)e01 • ftkimager target-driveverify Note: ftkimager tool can be downloaded from access data site - check Resources section

Resources

No	Tool/Resource	Website
1	Sysinternals Suite	https://docs.microsoft.com/en- us/sysinternals/downloads/sysinternals-suite
2	FTK	Command line version: https://accessdata.com/product-download/windows-32bit-3-1-1
3	MD5deep64 and md5deep	https://sourceforge.net/projects/md5deep/
4	ManTech Memory dd (mdd)	https://sourceforge.net/projects/mdd/
5	Memoryze	 https://www.fireeye.com/services/freeware/memoryze.html https://www.sans.org/blog/digital-forensics-how-to-memory-analysis-with-mandiant-memoryze/
6	Help command	 Use /? or -h command with any tool in case if you need more information https://ss64.com/nt/help.html