

# HARARE INSTITUTE OF TECHNOLOGY

# INFORMATION SECURITY AND ASSURANCE PART

4

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# COMPUTER FORENSICS LAB One – Windows Live Response

TUTOR: MR MARENGEREKE

Task 1 Creating a file volatile_1_03_2016.txt					
TOOLS REQUIRED TO PERFORM TASK: cmd.exe					
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
NO ARGUMENTS FOUND					
Filename Name of the file to be created					
Length Size of the file to be created					

C:\Users\user>cd C:\Users\user\Documents\4.2\LABS\Forencics

C:\Users\user\Documents\4.2\LABS\Forencics>fsutil file createnew volatile\_26\_02\_2018.txt 0
File C:\Users\user\Documents\4.2\LABS\Forencics\volatile\_26\_02\_2018.txt is created

COMMAND: fsutil file createnew volatile\_26\_02\_2018.txt 0

It will create an empty file named volatile\_26\_02\_2018.txt 0

Task 2 Find the md5 of the text file volatile_1_03_2016.txt					
TOOLS REQUIRED TO PERFORM TASK: md5sum					
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
-b Read the file in binary mode					
-c Check md5sums against a given list					
status Don't output anything, status code shows					
success					
-w Warn about improperly formatted md5sum					
checksum files					
help Displays help text					
version Output the version information and exit					

C:\Users\user\Documents\4.2\LABS\Forencics>md5sum volatile\_26\_02\_2018.txt >>volatile\_checksum.txt
C:\Users\user\Documents\4.2\LABS\Forencics>md5sum.exe volatile\_26\_02\_2018.txt
d41d8cd98f00b204e9800998ecf8427e \*volatile\_26\_02\_2018.txt

COMMAND: md5sum volatile\_26\_02\_2018.txt >>volatile\_checksum.txt

Creates an md5 of the file volatile\_26\_02\_2018.txt and stores it in the file volatile\_checksum.txt

Task 3: Find the system date					
TOOLS REQUIRED TO PERFORM TASK : date.exe					
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
/t switch which tells the command to just output t					

C:\Users\user\Documents\4.2\LABS\Forencics>date /t >> volatile\_26\_02\_2018.txt
C:\Users\user\Documents\4.2\LABS\Forencics>time /t >> volatile\_26\_02\_2018.txt

COMMAND: date /t >> volatile\_26\_02\_2018.txt

Gets the system date and stores it in the text file volatile\_26\_02\_2018.txt

Task 4: Find the system time					
TOOLS REQUIRED TO PERFORM TASK : date.exe					
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
/t Switch which tells the command to just output th					
current date, without prompting for a new time.					

#### **SCREENSHOT**

C:\Users\user\Documents\4.2\LABS\Forencics>date /t >> volatile\_26\_02\_2018.txt
C:\Users\user\Documents\4.2\LABS\Forencics>time /t >> volatile\_26\_02\_2018.txt

COMMAND: time /t >> volatile\_26\_02\_2018.txt

Gets the system time and stores it in the text file volatile\_26\_02\_2018.txt

Task 5: Find current network connections						
TOOLS REQUIRED TO PERFORM TASK : netstat						
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND						
-a Displays all connections and listening ports						
-b	Displays the executable involved in creating					
each connection or listening port						
-e Displays Ethernet statistics						
-f Displays the <b>Fully Qualified Domain Nam</b>						
for foreign addresses						
-n Displays addresses and port numbers						
numerical form						
-0	Displays the owning process ID that is					
	associated with each connection					
-p proto	Shows the connections for the protocols					
	specified by proto					
-q	Displays all connections listening ports and					
	bound all non-listening ports.					
-r	Displays the non-listening ports					
-S	Displays per protocol statistics					
-t	Displays current connection offload state					
-X	Displays network direct connections,					
	listeners and shared endpoints					
-у	Displays the TCP connection template for					
	all the connections.					
-interval Displays selected statistics, pausing interva						
seconds between each display.						

Microsoft Windows [Version 10.0.17093.1000] (c) 2017 Microsoft Corporation. All rights reserved.							
(c) 2017 Microsoft Corporation. All rights reserved.							
C:\IIsans	C:\Users\user>netstat -an						
C. (03El 3	(user /liecscac -all						
Active C	Connections						
Proto	Local Address	Foreign Address	State				
TCP	0.0.0.0:22	0.0.0.0:0	LISTENING				
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	0.0.0.0:623	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:902	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:912	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	0.0.0.0:1540	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:1541	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:1542	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:1560	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:2291	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:2701	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:2869	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:3389	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:3790	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:5040	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:5432	0.0.0.0:0	LISTENING				
TCP TCP	0.0.0.0:5700 0.0.0.0:7680	0.0.0.0:0 0.0.0.0:0	LISTENING LISTENING				
TCP	0.0.0.0:8884	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:9012	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:10617	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:16992	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:50080	0.0.0.0:0	LISTENING				
TCP	0.0.0.0:50443	0.0.0.0:0	LISTENING				
TCP	10.9.143.127:139	0.0.0.0:0	LISTENING				
TCP	10.9.143.127:1734	13.107.3.128:443	CLOSE WAIT				
TCP	10.9.143.127:1806	41.60.207.14:443	ESTABLISHED				
TCP	10.9.143.127:2056	131.253.61.100:443	TIME WAIT				
TCP	10.9.143.127:2057	40.127.129.109:443	TIME WAIT				
TCP	10.9.143.127:2058	40.127.129.109:443	TIME WAIT				
TCP	10.9.143.127:2061	144.76.8.69:8333	SYN SENT				
TCP	10.9.143.127:2063	40.127.129.109:443	TIME WAIT				
TCP	10.9.143.127:2071	40.127.129.109:443	TIME_WAIT				
			_				

COMMAND: netstat –an Displays all the connections and listening ports

TOOLS REQUIRED TO PERFORM TASK: netstat					
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
-a Displays all connections and listening ports					
-b	Displays the executable involved in creating each				
	connection or listening port				
-е	Displays Ethernet statistics				
-f	Displays the Fully Qualified Domain Name for				
	foreign addresses				
-n	Displays addresses and port numbers in numerical				
	form				
-O	Displays the owning process ID that is associated				
	with each connection				
-p proto	Shows the connections for the protocols specified				
	by proto.				
-q	Displays all connections listening ports and bound				
	all non-listening ports.				
-r	Displays the non-listening ports				
-S	Displays per protocol statistics				
-t	Displays current connection offload state				
-X	Displays network direct connections, listeners and				
	shared endpoints				
-у	Displays the TCP connection template for all the				
	connections.				
-interval	Displays selected statistics, pausing interval seconds				
between each display.					

# Screen Shot

C:\Users\user\Documents\4.2\LAB5\Forencics>netstat -anp udp>>volatile\_26\_02\_2018.txt

Command: netstat –anp udp>>filename

Task 7: Find the Internal Routing Table					
TOOLS USED TO PERFORM TASK: netstat -rn					
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
-a Displays all connections and listening ports					
-b	Displays the executable involved in creating				
	each connection or listening port				
-e Displays Ethernet statistics					
-f	Displays the Fully Qualified Domain Name				
	for foreign addresses				
-n Displays addresses and port numbers i					
numerical form					
-0	Displays the owning process ID that is				
	associated with each connection				
-p proto	Shows the connections for the protocols				
	specified by proto.				
-q	Displays all connections listening ports and				
	bound all non-listening ports.				
-r	Displays the non-listening ports				
-S	Displays per protocol statistics				
-t	Displays current connection offload state				
-x	Displays network direct connections,				
	listeners and shared endpoints				
-у	Displays the TCP connection template for				
	all the connections.				
-interval Displays selected statistics, pausing interval					
seconds between each display.					

```
IPv6 Route Table
.-----
Active Routes:
If Metric Network Destination
                               Gateway
                               On-link
      331 ::1/128
      311 fe80::/64
                               On-link
 9
14
      291 fe80::/64
                               On-link
12
     291 fe80::/64
                               On-link
     291 fe80::4192:f188:2150:5b8b/128
12
                               On-link
14
     291 fe80::6403:45ba:cc37:e03f/128
     311 fe80::9558:e09b:b4cd:cc3f/128
 9
                               On-link
     331 ff00::/8
                               On-link
 1
      311 ff00::/8
 9
                               On-link
14
      291 ff00::/8
                               On-link
      291 ff00::/8
12
                               On-link
Persistent Routes:
 None
```

Command used: netstat -rn. Displays the internal routing table

Task 8: Determining open TCP connections					
TOOLS USED TO PERFORM TASK: netstat –anp tcp					
LIST ALL FILTERS/ ARGUMENTS TH.	LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND				
-a	Displays all connections and listening ports				
-b	Displays the executable involved in creating each				
	connection or listening port				
-е	Displays Ethernet statistics				
-f	Displays the Fully Qualified Domain Name for foreign addresses				
-n	Displays addresses and port numbers in numerical form				
-0	Displays the owning process ID that is associated with each connection				
-p proto	Shows the connections for the protocols specified by proto.				
-q	Displays all connections listening ports and bound all non-listening ports.				
-r	Displays the non-listening ports				
-S	Displays per protocol statistics				
-t	Displays current connection offload state				
-X	Displays network direct connections, listeners and shared endpoints				
-у	Displays the TCP connection template for all the connections				
-interval	Displays selected statistics, pausing interval seconds between each display.				

## Screenshot

C:\Users\user\Documents\4.2\LABS\Forencics>netstat -anp tcp>>volatile\_26\_02\_2018.txt

Command: netstat –anp TCP

Task 9: Determining which services are opening UDP connections					
TOOLS USED TO PERFORM TASK: netstat –anp udp					
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
-a	Displays all connections and listening ports				
-b	Displays the executable involved in creating each				
	connection or listening port				
-е	Displays Ethernet statistics				
-f	Displays the Fully Qualified Domain Name for				
	foreign addresses				
-n	Displays addresses and port numbers in numerical				
	form				
-O	Displays the owning process ID that is associated				
	with each connection				
-p proto	Shows the connections for the protocols specified				
	by protocol.				
-q	Displays all connections listening ports and bound				
	all non-listening ports.				
-r	Displays the non-listening ports				
-S	Displays per protocol statistics				
-t	Displays current connection offload state				
-X	Displays network direct connections, listeners and				
	shared endpoints				
-у	Displays the UDP connection template for all the				
	connections				
-interval	Displays selected statistics, pausing interval				
seconds between each display.					

Screen Shot

```
C:\Users\user\Documents\4.2\LABS\Forencics>netstat -anp UDP
Active Connections
 Proto Local Address
                                Foreign Address
                                                        State
                                * *
         0.0.0.0:123
         0.0.0.0:500
 UDP
 UDP
         0.0.0.0:3389
 UDP
         0.0.0.0:4500
 UDP
         0.0.0.0:5050
         0.0.0.0:5353
 UDP
 UDP
         0.0.0.0:5355
 UDP
         0.0.0.0:54770
 UDP
         0.0.0.0:57927
 UDP
         10.9.143.127:137
         10.9.143.127:138
 UDP
         10.9.143.127:1900
 UDP
         10.9.143.127:54886
 UDP
         127.0.0.1:1900
 UDP
 UDP
         127.0.0.1:29821
 UDP
         127.0.0.1:54887
 UDP
         127.0.0.1:59815
```

Command: netstat -anp UDP

Task 10: Running Processes					
TOOLS USED TO PERFORM TASK: pslist	t				
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND					
-d Show thread detail					
-m Show memory detail					
-X	Show process, memory information and				
threads					
-t Show process tree					
-s [n] Run in task manager for the optional					
	seconds specified				
-r n Task Manager refresh rate in seconds					
\\computer Specifies remote computer					
-u Optional username for remote login					
-p Optional password for remote login. if yo					
don't request for it on the comm					
	pslist may request one if necessary				
-name Show information about the process th					
begin with the name specified					
-е	Exact name process zone				
pid	Show information about the specified				
system					

## C:\Users\user\Documents\4.2\LABS\Forencics>pslist

pslist v1.28 - Sysinternals PsList Copyright - 2000-2004 Mark Russinovich Sysinternals

Process information for REDPAROLL-7THZO:

Name	Pid	Pri	Thd	Hnd	Priv	CPU Time	Elapsed Time
Idle	0	0	4	0	52	43:01:04.312	46:02:25.747
System	4	8	174	8219	216	26:38:41.406	46:02:25.747
Registry	96	8	3	0	2776	0:00:09.156	46:02:47.910
smss	428	11	2	52	500	0:00:00.359	46:02:25.744
csrss	592	13	12	1087	1920	0:00:12.000	46:02:03.481
wininit	684	13	2	151	1388	0:00:00.093	46:02:03.170
services	760	9	11	1012	7920	0:20:18.500	46:02:03.114
lsass	776	9	18	2271	16608	0:02:37.968	46:02:03.099
svchost	900	8	2	84	1048	0:00:00.218	46:02:02.615
svchost	924	8	29	2892	20464	0:02:09.640	46:02:02.591
fontdrvhost	952	8	5	45	1744	0:00:00.093	46:02:02.570
svchost	388	8	20	1738	16828	0:06:11.515	46:02:02.233
svchost	552	8	11	378	3824	0:00:19.468	46:02:02.209
svchost	1188	8	32	566	5068	0:00:06.281	46:02:01.822
svchost	1244	8	7	176	7856	0:00:26.921	46:02:01.810
svchost	1268	8	4	198	1992	0:00:01.031	46:02:01.805
svchost	1324	8	8	259	2984	0:00:03.046	46:02:01.790
svchost	1400	8	4	188	2012	0:00:01.843	46:02:01.771
svchost	1448	8	10	230	2996	0:01:13.718	46:02:01.754
svchost	1468	8	4	197	2440	0:00:01.703	46:02:01.743
svchost	1560	8	17	271	6496	0:28:53.390	46:02:01.712
svchost	1568	8	14	430	6928	0:00:08.296	46:02:01.710
svchost	1708	8	3	171	1888	0:00:00.640	46:02:01.638
svchost	1796	8	4	177	1908	0:00:00.828	46:02:01.609
svchost	1864	8	7	229	2824	0:00:04.265	46:02:01.575
svchost	1892	8	16	560	19940	0:01:16.265	46:02:01.561
svchost	1396	8	3	242	2840	0:00:00.609	46:02:01.497
svchost	2056	8	3	156	2180	0:00:01.656	46:02:01.485
svchost	2112	8	5	170	2236	0:00:07.515	46:02:01.454
svchost	2148	8	8	218	2088	0:00:00.468	46:02:01.434
WUDFHost	2324	13	14	341	25152	0:00:01.484	46:02:01.306
dasHost	2336	8	4	217	3832	0:00:03.062	46:02:01.299
svchost	2344	8	10	496	19824	0:02:37.468	46:02:01.299
svchost	2364	8	7	253	4368	0:01:23.671	46:02:01.292
svchost	2444	8	6	199	2368	0:00:03.234	46:02:01.276
svchost	2508	8	9	239	118020	0:33:36.453	46:02:01.242
svchost	2516	8	5	183	2112	0:00:01.187	46:02:01.241

Command used: pslist. It lists the current processes running.

Task 11: Running Services	
TOOLS TO PERFORM TASK: psservice	
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND	
Query	Queries the status of a service
Config	Queries the configuration
Setconfig	Sets a configuration
Start	Starts a service
Stop	Stops a service
Restart	Stops and restarts a service
Pause	Pause a service
Continue	Continue a service
Depend	Enumerates the services that depend on the one specified
find	Searches for an instance of a service on the network
security	Reports the security permissions assigned to a service

```
C:\Users\user\Documents\u.2\LABS\Forencicspsservice

PSERVICE v2.21 Service information and configuration utility
Copyright (C) 2001-2006 Mark Bussinovich
Systitemial = unin-sysintemials.com

SERVICE_NAME: AdobehpdateService

SERVICE_NAME: AdobehpdateService

(NULL)

VPE : 10 MINI32_CMA_PROCESS

STATE : 4 RUBNING

(STOPPABLE,NOT_PAUSABLE,IGNORES_SHJTDOWN)

MINI32_EXIT_CODE : 0 (0x0)
SERVICE_EXIT_CODE : 0 (0x0)
SERVICE_EXIT_CODE : 0 (0x0)
SERVICE_NAME: AGOService

SERVICE_NAME: AGOService

SERVICE_NAME: AGOService

SERVICE_NAME: AGOService

SERVICE_NAME: AGOService

SISTATE : 4 RUBNING

MINI32_EXIT_CODE : 0 (0x0)
SERVICE_STAT_CODE : 0 (0x0)
SERVICE_NAME: AGOSERvice

SERVICE_NAME: ADOSERvice (0x0)
SERVICE_NAME: AGOSERvice (0x0)
SERVICE_NAME: AGOSERvice (0x0)
SERVICE_NAME: AGOSERvice (0x0)
SERVICE_NAME: ADOSERvice (0x0)
SERVICE_
```

Command Used: psservice. It gives the list of services that are currently running

Task 12: Find Scheduled Jobs	
TOOLS USED TO PERFOM TASK: schtasks.exe	
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND	
NO OPTIOAL ARGUMENTS FOUND	
/Create	Creates a new scheduled task.
/Delete	Deletes the scheduled task(s).
/ShowSid	Shows the security identifier corresponding
	to a scheduled task name.
/End	Stops the currently running scheduled task.
/Run	Runs the scheduled task on demand.
/Change	Changes the properties of scheduled task
/Query	Displays all scheduled tasks.

C:\Users\user\Documents\4.2\LABS\Forencics>schtasks		
Folder: \		
TaskName	Next Run Time	Status
AdobeGCInvoker-1.0-MicrosoftAccount-itee	22/03/2018 7:27:00 AM	Ready
Dell SupportAssistAgent AutoUpdate	21/03/2018 8:16:08 PM	Ready
DriverPack Notifier	21/03/2018 8:37:00 PM	Ready
Git for Windows Updater	22/03/2018 8:32:52 AM	Ready
OneDrive Standalone Update Task-S-1-5-21	22/03/2018 8:21:29 AM	Ready
Pcd.DriverScan.7GN0K	N/A	Ready
PCDDataUploadTask	28/03/2018 5:25:34 AM	Ready
PCDEventLauncherTask	N/A	Ready
PCDoctorBackgroundMonitorTask	06/04/2018 12:00:00 AM	-
SystemToolsDailyTest	21/03/2018 2:43:00 PM	0
UCBrowserUpdater	21/03/2018 10:58:00 AM N/A	
UCBrowserUpdaterCore User_Feed_Synchronization-{070525A5-9DE8		Ready
{911969D5-F6D1-4452-918F-F12276678FB1}	N/A	Ready
{BBEE1151-AD1D-4725-9DBD-48AB0AB8AE4C}	N/A	Ready
(BULLITATION 4723-3000-40ADOADOAL4C)	11/ 15	Reddy
Folder: \Microsoft		
TaskName	Next Run Time	Status
		=======================================
INFO: There are no scheduled tasks prese	ntly available at your a	access level.
Folder: \Microsoft\Configuration Manager		
TaskName	Next Run Time	Status
Configuration Manager Health Evaluation	N/A	Ready
Folder: \Microsoft\Office		
TaskName	Next Run Time	Status
askivalile		
Office 15 Subscription Heartbeat	22/03/2018 5:51:27 AM	
OfficeTelemetryAgentFallBack2016	N/A	Ready
OfficeTelemetryAgentLogOn2016	N/A	Ready
Folder: \Microsoft\Windows		
TaskName	Next Run Time	Status
INFO: There are no scheduled tasks presently available at your access level.		
Folder: \Microsoft\Windows\.NET Framework		
TaskName	Next Run Time	Status

Command used: schtasks.

It gives the list of tasks that are scheduled to run

Task 13: Process Image Dumps	
TOOLS TO BE USED: userdump	
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND	
-р	Displays a list of running process and
	process Id's
-k	Optionally causes a process to be killed
	after being dumped
-m	Same as above, except that it dumps
	multiple files
-d	Specifies the directory to dump the files
-g	Same as above, except that it dumps win32
	gui apps that appear to hang

```
Χ
                                                                                                                         C:\WINDOWS\system32\cmd.exe
C:\IRTOOLKIT_MUSARA\userdump>userdump /p
User Mode Process Dumper (Version 3.0)
Copyright (c) 1999 Microsoft Corp. All rights reserved.
   0 System Idle Process
  4 System
 432 smss.exe
584 csrss.exe
648 csrss.exe
672 wininit.exe
728 winlogon.exe
 780 services.exe
 796 lsass.exe
876 svchost.exe
956 svchost.exe
 76 dwm.exe
776 svchost.exe
1088 svchost.exe
1096 svchost.exe
1128 svchost.exe
1208 svchost.exe
1272 svchost.exe
1448 svchost.exe
1924 spoolsv.exe
```

Command Used: userdump /p. displays a list of running processes and process ID's

```
Task14: Find the History of all commands Executed

TOOLS TO BE USED: cmd.exe

LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND

NO OPTIONAL ARGUMENTS FOUND
```

```
C:\Users\user\Documents\4.2\LABS\Forencics>DOSKEY /history
cd C:\Users\user\Documents\4.2\LABS\Forencics]
cd C:\Users\user\Documents\4.2\LABS\Forencics
fsutil file createnew volatile 26 02 2018.txt 0
md5sum volatile 26 02 2018.txt >>volatile checksum.txt
md5sum.exe volatile 26 02 2018.txt
date /t >> volatile 26 02 2018.txt
time /t >> volatile 26 02 2018.txt
netsat -an
netstat -anp udp>>volatile 26 02 2018.txt
netsat -noa
netstat -rn
netstat -anp UDP
pslist
psservice
schtasks
userdump
DOSKEY /history
```

Command Used: DOSKEY /history. Lists the history of all the commands performed

Task 15: OPEN FILES	
TOOLS TO PERFORM TASK: psfile	
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND	
-u	Specifies optional user name for login to
	remote computer
-р	Specifies password for user name.
Id	Id of file to print information for or close
Path	Full or partial path of files to match.
-C	Closes file identified by file Id.

Screen Shot

C:\Users\user\Documents\4.2\LABS\Forencics>psfile.exe

psfile v1.02 - psfile Copyright - 2001 Mark Russinovich Sysinternals

Error listing remotely open files on REDPAROLL-7THZO: Access is denied.

C:\Users\user\Documents\4.2\LABS\Forencics>

C:\Users\user\Documents\4.2\LABS\Forencics>psfile.exe

psfile v1.02 - psfile Copyright - 2001 Mark Russinovich Sysinternals

No files opened remotely on REDPAROLL-7THZO.

Command: psfile.exe

Task 16: Users currently logged on	
TOOLS TO PERFORM TASK: psloggedon	
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND	
-I	Show only local logons
-X	Don't show logon times

#### Screen Shot

```
C:\Users\user\Documents\4.2\LABS\Forencics>PSloggedon.exe
```

loggedon v1.33 - See who's logged on Copyright - 2000-2006 Mark Russinovich Sysinternals - www.sysinternals.com

Users logged on locally:

Error: could not retrieve logon time

NT AUTHORITY\LOCAL SERVICE

Error: could not retrieve logon time

NT AUTHORITY\NETWORK SERVICE

20/03/2018 6:08:18 AM REDPAROLL-7THZO\user

Error: could not retrieve logon time

NT AUTHORITY\SYSTEM

No one is logged on via resource shares.

Command: PSloggedon.exe

Task17: Cached NetBIOS Name Table	
TOOLS REQUIRED TO PERFORM TASK: nbtstat	
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND	
-a	Lists the remote machine's name table given its name
-C	Lists NBT's cache of remote [machine] names and their IP addresses
-n	Lists local NetBIOS names
-r	Lists names resolved by broadcast and via WINS
-R	Purges and reloads the remote cache name table
-\$	Lists sessions table with the destination IP addresses
-S	Lists sessions table converting destination IP
-A	Lists the remote machine's name table given its IP address.
-RR	Sends Name Release packets to WINS and then, starts Refresh

Screen shot

```
C:\Users\user\Documents\4.2\LABS\Forencics>nbtstat -c
VMware Network Adapter VMnet8:
Node IpAddress: [192.168.42.1] Scope Id: []
   No names in cache
VMware Network Adapter VMnet1:
Node IpAddress: [192.168.159.1] Scope Id: []
   No names in cache
Ethernet 4:
Node IpAddress: [0.0.0.0] Scope Id: []
   No names in cache
Ethernet:
Node IpAddress: [0.0.0.0] Scope Id: []
   No names in cache
Bluetooth Network Connection:
Node IpAddress: [0.0.0.0] Scope Id: []
   No names in cache
Wi-Fi:
Node IpAddress: [0.0.0.0] Scope Id: []
   No names in cache
Local Area Connection* 3:
Node IpAddress: [0.0.0.0] Scope Id: []
   No names in cache
Local Area Connection* 4:
Node IpAddress: [192.168.137.1] Scope Id: []
   No names in cache
Ethernet 8:
```

COMMAND: nbtstat -c>> volatile\_26\_02\_2018.txt

Task17: Calculate the second md5 of volatile_1_03_2016.txt	
TOOLS REQUIRED TO PERFORM TASK: md5sum	
LIST ALL FILTERS/ ARGUMENTS THAT CAN BE PASSED FOR THE TOOL/ COMMAND	
-b	Read the file in binary mode
-C	Check md5sums against a given list
status	Don't output anything, status code shows
	success
-W	Warn about improperly formatted md5sum
	checksum files
help	Displays help text
version	Output the version information and exit

## SCREENSHOTS

C:\Users\user\Documents\4.2\LABS\Forencics>md5sum volatile\_26\_02\_2018.txt >> volatile\_26\_02\_2018.txt

COMMAND: md5sum volatile\_26\_02\_2018.txt >> volatile\_26\_02\_2018.txt

Creates an md5 of the file volatile\_26\_02\_2018.txt and stores it in the file in the file volatile\_26\_02\_2018.txt