DIGITAL FORENSICS II EXPERIMENT 7

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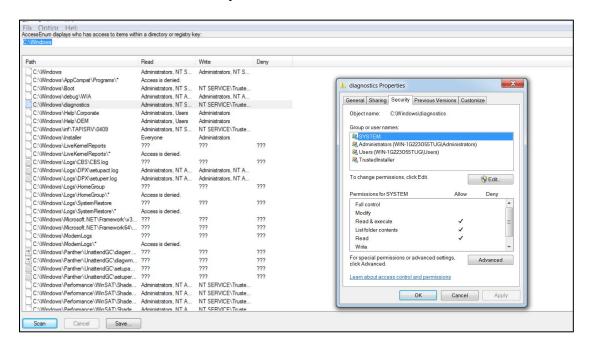
Aim: Forensics using SysInternals tool.

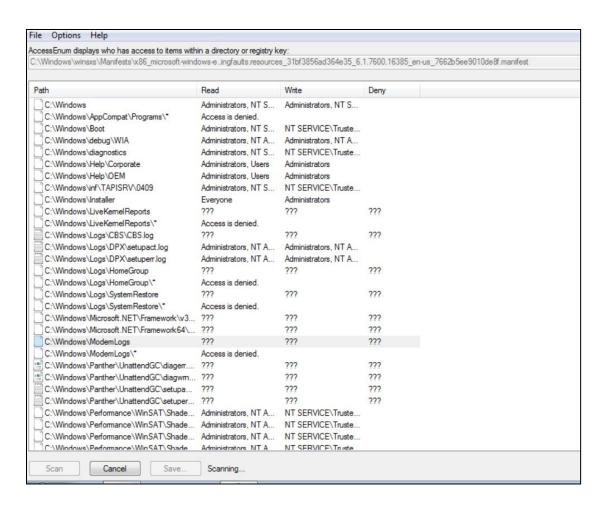
Tools Description: 10 tools of Sysinternals have been mentioned below -

- AccessEnum
- > Cacheset
- Autologon
- PsLoglist
- Loadorder
- > Bginfo
- > TCPview
- > CPU stres
- ➤ Disk2vhd
- PsService

❖ AccessEnum v1.32

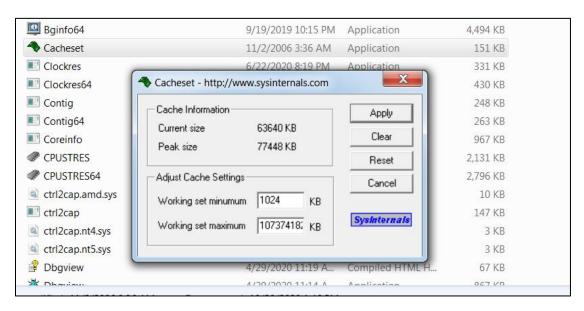
AccessEnum gives us a full view of our file system and Registry security settings in seconds, making it the ideal tool for helping us find security holes and lock down permissions where necessary. It uses standard Windows security APIs to populate its listview with read, write and deny access information.





❖ CacheSet v1.0

CacheSet is an applet that allows us to manipulate the working-set parameters of the system file cache. Unlike CacheMan, CacheSet runs on all versions of NT and will work without modifications on new Service Pack releases. In addition to providing us the ability to control the minimum and maximum working set sizes, it also allows us to reset the Cache's working set, forcing it to grow as necessary from a minimal starting point.



❖ PsLogList v2.81

PsLogList is a clone of elogdump except that PsLogList lets us login to remote systems in situations usr current set of security credentials would not permit access to the Event Log, and PsLogList retrieves message strings from the computer on which the event log us view resides.

```
778] Service Control Manager
  Type:
            INFORMATION
  Computer: WIN-1G223055TUG
            7/19/2020 7:00:59 PM
  Time:
                                    ID:
                                              7036
he Computer Browser service entered the stopped state.
777] Service Control Manager
            INFORMATION
  Type:
  Computer: WIN-1G223055TUG
            7/19/2020 7:00:53 PM
                                    ID:
                                              7036
he SSDP Discovery service entered the running state.
776] Service Control Manager
            INFORMATION
  Type:
  Computer: WIN-1G223055TUG
            7/19/2020 7:00:53 PM
                                   ID:
                                              7036
  Time:
he Windows Media Player Network Sharing Service service entered the running sta
775] Service Control Manager
           INFORMATION
  Type:
  Computer: WIN-1G223055TUG
            7/19/2020 7:00:53 PM
                                   ID:
he Computer Browser service entered the running state.
774] Service Control Manager
  Type:
            INFORMATION
  Computer: WIN-1G223055TUG
            7/19/2020 7:00:53 PM
                                   ID:
                                              7036
  Time:
he HomeGroup Provider service entered the running state.
773] Service Control Manager
            INFORMATION
  Computer: WIN-1G223055TUG
            7/19/2020 7:00:53 PM
                                    ID:
                                              7036
he Function Discovery Resource Publication service entered the running state.
```

❖ LoadOrder v1.0

This applet shows us the order that a Windows NT or Windows 2000 system loads device drivers. Note that on Windows 2000 plug-and-play drivers may actually load in a different order than the one calculated, because plug-and-play drivers are loaded on demand during device detection and enumeration.

Start value	Group name	Tag	Service/Device	Display Name	Image path
Boot	WdfLoadGroup	n/a*	Wdf01000	Kernel Mode D	system32\driv
Boot	Boot Bus Exten	1	ACPI	Microsoft ACP	system32\driv
Boot	Boot Bus Exten	2	msisadry		system32\driv
Boot	Boot Bus Exten	3	pci	PCI Bus Driver	system32\driv
Boot	Boot Bus Exten	6	vdrvroot	Microsoft Virtu	system32\driv
Boot	Boot Bus Exten	n/a*	partmgr	@%SystemRo	System32\driv
Boot	System Bus Ext	7	Compbatt	Microsoft Co	system32\DRIV
Boot	System Bus Ext	9	volmgr	Volume Mana	system32\driv
Boot	System Bus Ext	10	volmgrx	@%SystemRo	System32\driv
Boot	System Bus Ext	6	intelide		system32\driv
Boot	System Bus Ext	15	vmci	VMware VMCI	system32\DRIV
Boot	System Bus Ext	16	vsock	vSockets Virtu	system32\DRIV
Boot	System Bus Ext	n/a*	mountmgr	@%SystemRo	System32\driv
Boot	SCSI Miniport	33	atapi	IDE Channel	system32\driv
Boot	SCSI Miniport	34	LSI_SAS		system32\driv
Boot	SCSI Miniport	64	msahci		system32\driv
Boot	SCSI miniport	n/a*	amdxata		system32\driv
Boot	FSFilter Infrastr	1	FltMgr	@%SystemRo	system32\driv
Boot	FSFilter Bottom	n/a*	FileInfo	@%SystemRo	system32\driv
Boot	Filter	1	CLFS	@%SystemRo	System32\CLF
Boot	Base	1	KSecDD		System32\Driv
Boot	Base	2	CNG		System32\Driv
Boot	Base	n/a*	pcw	Performance C	System32\driv
Boot	File System	n/a*	Fs Rec		
Boot	NDIS Wrapper	n/a*	NDIS	@%SystemRo	system32\driv
Boot	Cryptography	2	KSecPkg		System32\Driv
Boot	PNP_TDI	3	Tcpip	@%SystemRo	System32\driv
Boot	n/a*	n/a*	Disk	Disk Driver	system32\driv
Boot	PnP Filter*	5*	fvevol	@%SystemRo	System32\DRI
Boot	n/a*	n/a*	hwpolicy	@%systemroo	System32\driv
Boot	Network*	n/a*	Mup	@%systemroo	System32\Driv
Boot	PnP Filter*	2*	rdyboost	ReadyBoost	System32\driv
Boot	n/a*	n/a*	spldr	Security Proce	WAS MINE OF THE PARTY OF THE PA
Boot	n/a*	n/a*	volsnap	Storage volumes	system32\driv
System	SCSI CDROM	3	cdrom	CD-ROM Driver	system32\DRIV

❖ BgInfo v4.28

It automatically displays relevant information about a Windows computer on the desktop's background, such as the computer name, IP address, service pack version, and more. us can edit any field as well as the font and background colors, and can place it in usr startup folder so that it runs every boot, or even configure it to display as the background for the logon screen.

Boot Time: 10/20/2020 9:55 PM

CPU: 1.8 GHz Unknown Family 6, Model 8E

Default Gateway: 192.168.198.2 DHCP Server: 192.168.198.254

(none)

DNS Server: 192.168.198.2

(none)

Free Space: C:\ 46.65 GB NTFS
Host Name: WIN-1G223O55TUG
IE Version: 8.0.7601.17514
IP Address: 192.168.198.129

(none)

Logon Domain: WIN-1G223O55TUG Logon Server: WIN-1G223O55TUG MAC Address: 00-0C-29-9C-39-C0

FC-01-7C-29-BE-7A

Machine Domain: WORKGROUP

Memory: 2048 MB

Network Card: Intel(R) PRO/1000 MT Network Connection

Bluetooth Device (Personal Area Network)

Network Speed: 1 Gb/s

0 b/s

Network Type: Ethernet

Ethernet

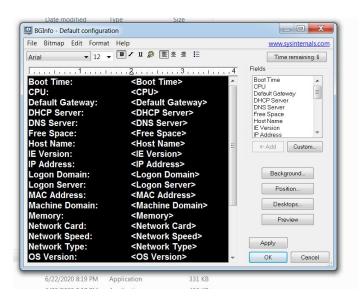
OS Version: Windows 7
Service Pack: Service Pack 1

Snapshot Time: 10/20/2020 10:08 PM

Subnet Mask: 255.255.255.0

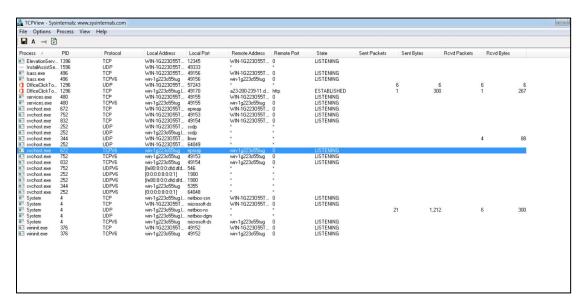
(none)

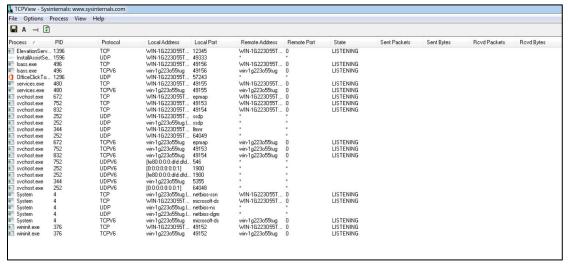
System Type: Workstation, Terminal Server, Personal



❖ TCPView v3.05

TCPView is a Windows program that will show us detailed listings of all TCP and UDP endpoints on usr system, including the local and remote addresses and state of TCP connections. On Windows Server 2008, Vista, and XP, TCPView also reports the name of the process that owns the endpoint. TCPView provides a more informative and conveniently presented subset of the Netstat program that ships with Windows. The TCPView download includes Tcpvcon, a command-line version with the same functionality.





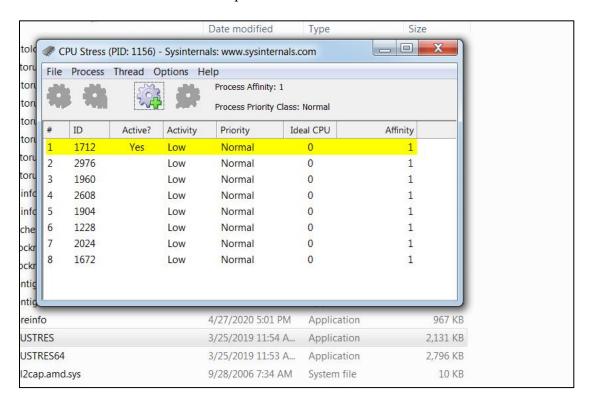
❖ CPUstres v2.0

CpuStres is a utility that can be used to simulate CPU activity by running up to 64 threads in a tight loop.

Each thread can be started, paused or stopped independently and can be configured with the following parameters:

Activity Level This can be Low, Medium, Busy or Maximum which controls how long the thread sleepss betusen cycles. Setting this value to Maximum causes the thread to run continuously.

Priority This controls the thread priority. Refer to Windows Internals by Mark Russinovich for details on thread priorities



❖ Disk2vhd v2.01

Disk2vhd is a utility that creates VHD (Virtual Hard Disk - Microsoft's Virtual Machine disk format) versions of physical disks for use in Microsoft Virtual PC or Microsoft Hyper-V virtual machines (VMs). The difference betusen Disk2vhd and other physical-to-virtual tools is that us can run Disk2vhd on a system that's online. Disk2vhd uses Windows' Volume Snapshot capability, introduced in Windows XP, to create consistent point-in-time snapshots of the volumes us want to include in a conversion.



PsService v2.25

PsService is a service vieusr and controller for Windows. Like the SC utility that's included in the Windows NT and Windows 2000 Resource Kits, *PsService* displays the status, configuration, and dependencies of a service, and allows us to start, stop, pause, resume and restart them. Unlike the SC utility, *PsService* enables us to logon to a remote system using a different account, for cases when the account from which us run it doesn't have required permissions on the remote system.

```
C:\Users\khushi\Downloads\kashish\PsService.exe
The WLANSUC service provides the logic required to configure, discover,
to, and disconnect from a wireless local area network (WLAN) as defined by IEEE
802.11 standards. It also contains the logic to turn your computer into a softwa
e access point so that other devices or computers can connect to your computer
wirelessly using a WLAN adapter that can support this. Stopping or disabling the
WLANSUC service will make all WLAN adapters on your computer inaccessible from
the Windows networking UI. It is strongly recommended that you have the WLANSUC
service running if your computer has a WLAN adapter.
         GROUP
                                  TDI
                                  20 WIN32_SHARE_PROCESS
         TYPE
         STATE
                                     STOPPED
                                (NOT_STOPPABLE,NOT_PAUSABLE,IGNORES_SHUTDOWN) : 1077 (0x435)
         WIN32_EXIT_CODE
         SERVICE_EXIT_CODE : 0 (0x0)
         CHECKPOINT
                               : 0x0
         WAIT_HINT
                                : 0 ms
SERUICE_NAME: wmiApSrv
DISPLAY_NAME: WMI Performance Adapter
 Provides performance library information from Windows Management Instrumentation
(WMI) providers to clients on the network. This service only runs when Performa
nce Data Helper is activated.
                                : 10 WIN32_OWN_PROCESS
         TYPE
         STATE
                                     STOPPED
                                      (NOT_STOPPABLE, NOT_P
               pssuspend64
                                                      6/28/2016 11:31 PM Application
```

❖ Autologon v3.10

Autologon enables us to easily configure Windows' built-in autologon mechanism. Instead of waiting for a user to enter their name and password, Windows uses the credentials us enter with Autologon, which are encrypted in the Registry, to log on the specified user automatically.

Autologon is easy enough to use. Just run autologon.exe, fill in the dialog, and hit Enable. To turn off auto-logon, hit *Disable*. Also, if the shift key is held down before the system performs an autologon, the autologon will be disabled for that logon. us can also pass the username, domain and password as command-line arguments

