Rootkit is a stealth type of malicious software designed to hide the existence of certain process from normal methods of detection and enables continued privileged access to a computer.

INTRODUCTION:

Breaking the term rootkit into the two component words, root and kit, is a useful way to define it. Root is a UNIX/Linux term that's the equivalent of Administrator in Windows.

The word kit denotes programs that allow someone to obtain root/admin-level access to the computer by executing the programs in the kit — all of which is done without end-user consent or knowledge.

A rootkit is a type of malicious software that is activated each time your system boots up. Rootkits are difficult to detect because they are activated before your system's Operating System has completely booted up. A rootkit often allows the installation of hidden files, processes, hidden user accounts, and more in the systems OS. Rootkits are able to intercept data from terminals, network connections, and the keyboard.

Rootkits have two primary functions: remote command/control (back door) and software eavesdropping. Rootkits allow someone, legitimate or otherwise, to administratively control a computer. This means executing files, accessing logs, monitoring user activity, and even changing the computer's configuration.

Therefore, in the strictest sense, even versions of VNC are rootkits. This surprises most people, as they consider rootkits to be solely malware, but in of themselves they aren't malicious at all.

The presence of a rootkit on a network was first documented in the early 1990s. At that time, Sun and Linux operating systems were the primary targets for a hacker looking to install a rootkit. Today, rootkits are available for a number of operating systems, including Windows, and are increasingly difficult to detect on any network.

PROCEDURE:

STEP-1: Download Rootkit Tool from GMER website www.gmer.net.

STEP-2: This displays the Processes, Modules, Services, Files, Registry, RootKit Malwares, Autostart, CMD of local host.

STEP-3: Select Processes menu and kill any unwanted process if any.

STEP-4: Modules menu displays the various system files like .sys, .dll

STEP-5: Services menu displays the complete services running with Autostart, Enable, Disable, System, Boot.

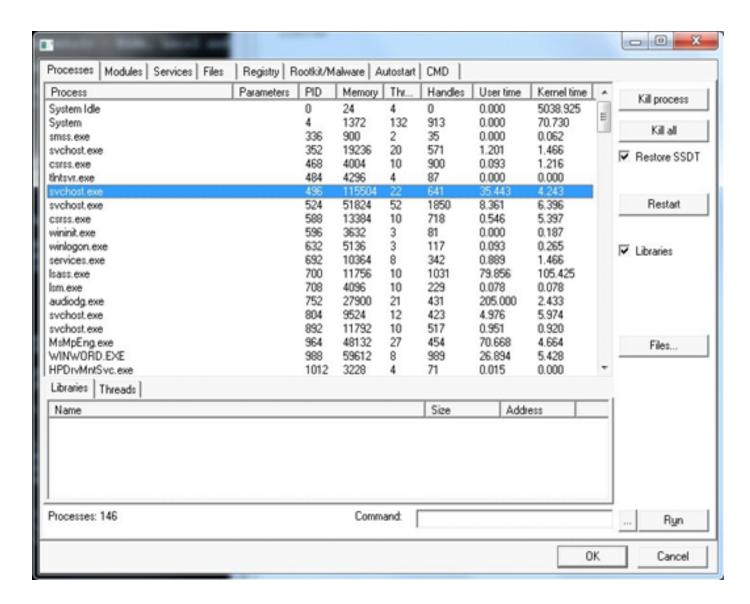
STEP-6: Files menu displays full files on Hard-Disk volumes.

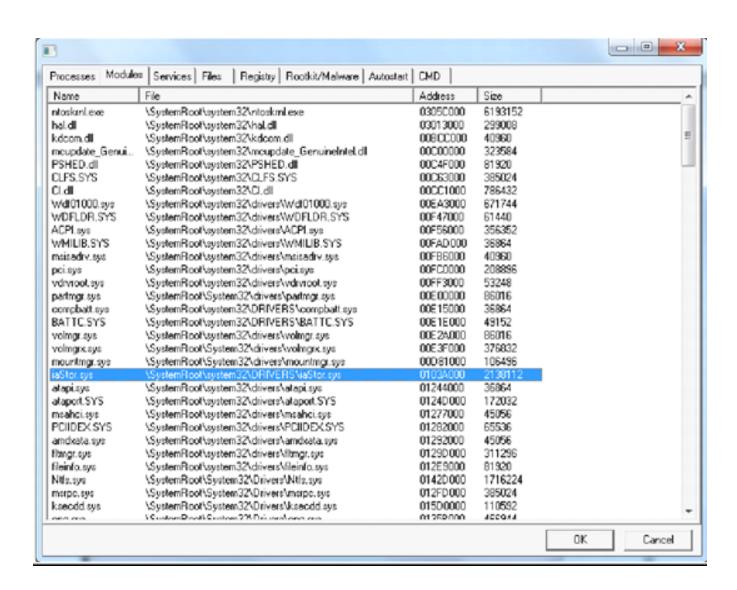
STEP-7: Registry displays Hkey_Current_user and Hkey_Local_Machine.

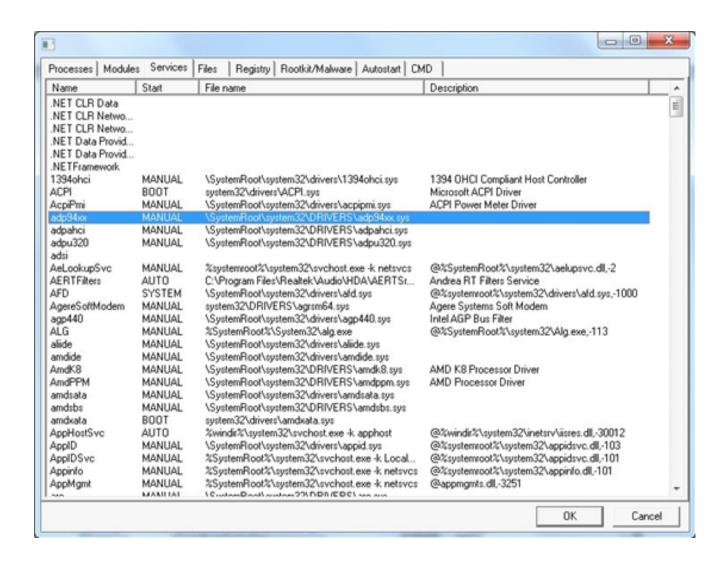
STEP-8: Rootkits / Malwares scans the local drives selected.

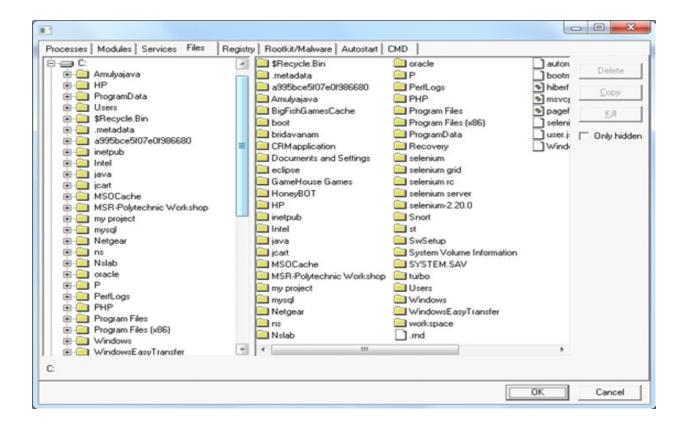
STEP-9: Autostart displays the registry base Autostart applications.

STEP-10:CMD allows the user to interact with command line utilities or Registry









GMER is an application that detects and removes rootkits .

It scans for:

- 1. hidden processes
- 2. hidden threads
- 3. hidden modules
- 4. hidden services
- 5. hidden files
- 6. hidden disk sectors (MBR)
- 7. hidden Alternate Data Streams
- 8. hidden registry keys
- 9. drivers hooking SSDT
- 10. drivers hooking IDT
- 11. drivers hooking IRP calls
- 12 inline hooks

Frequently Asked Questions

Question Do I have a rootkit?

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Answer: You can scan the system for rootkits using GMER. Run gmer.exe,

select Rootkit tab and click the "Scan" button.

If you don't know how to interpret the output, please Save the log

and send it to my email address.

Warning! Please, do not select the "Show all" checkbox during

the scan.

Question How to create "3rd party" log?

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Answer: Tick "3rd party" option and then click the "Scan" button. After the

scan you can use "Remove signed" and "Remove duplicates" options

to filter the scan results.

Question How to install the GMER software?

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Answer: Just run gmer.exe. All required files will be copied to the system

during the first lanuch.

Question How to uninstall/remove the GMER software from my machine?

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Answer: Just delete the **exe** file.

Question My computer is infected and GMER won't start:

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Answer: Try to rename gmer.exe to iexplore.exe and then run it.

Question How do I remove the Rustock rootkit?

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Answer: When GMER detects hidden service click "Delete the service" and

answer **YES** to all questions.

Question: How do I show all NTFS Streams?

Answer: On the "Rootkit Tab" select only: Files + ADS + Show all options and then click the Scan button.

Question: Can I launch GMER in Safe Mode?

Answer: Yes, you can launch GMER in Safe Mode, however rootkits which don't work in Safe Mode won't be detected.

Question: I am confused as to use delete or disable the hidden "service".

Answer: Sometimes "delete the service" option wont work because the rootkit protects its service. So, in such case use: 1) "disable the service", 2) reboot your machine, and 3) "delete the service".

link

http://www.gmer.net/#files