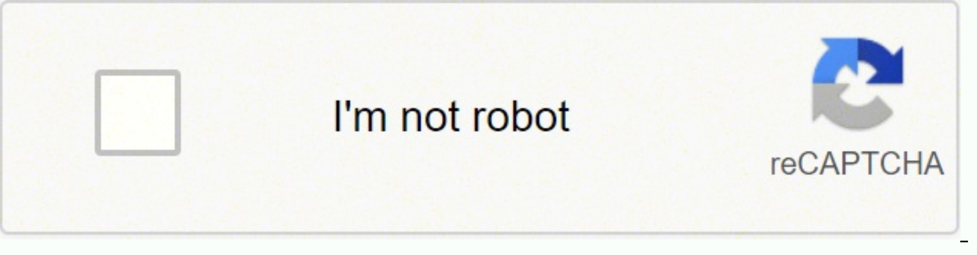

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Additionally, KAPE can be used to collect key artifacts prior to the start of the imaging process. This too works by targeting either specific file names or directories. The type of information and the location of the artifact varies from one operating system to another. You can use tools like Windows Prefetch Parser, WinPrefetchView, or PECmd.Top Open-Source Tools for Windows Forensic AnalysisIn this section, we will be discussing some of the open-source tools that are available for conducting Forensic Analysis in the Windows Operating System.1. Magnet Encrypted Disk Detector: This tool is used to check the encrypted physical drives. This secondary queue contains all the files that were locked or in use. The metadata is also collected into log files as well. In case you don’t know what are you looking for, the entire process becomes twice as hard.Top Open-Source Tools for Windows Forensic AnalysisWhat is Windows Forensic Analysis?Windows Forensic Analysis focuses on 2 things:In-depth analysis of Windows Operating System.Analysis of Windows System Artifacts.Windows artifacts are the objects which hold information about the activities that are performed by the Windows user. This tool can be integrated with Wireshark. By grouping things by category, examiners of all skill levels have the means to discover relevant information regardless of an individual artifact's source. You can download it from here.3. Wireshark: This is a network analyzer tool and a capture tool that is used to see what traffic is going in your network. Windows artifacts contain sensitive information that is collected and analyzed at the time of forensic analysis.What are Forensic Artifacts?Forensic artifacts are the forensic objects that have some forensic value. This feature provides us with various artifacts like:Program Execution, if a malicious program crashes during program execution.You can locate these artifacts at the following locations: C:\ProgramData\Microsoft\Windows\WER\ReportArchive C:\Users\XXX\AppData\Local\Microsoft\Windows\WER\ReportArchive C:\ProgramData\Microsoft\Windows\WER\ReportQueue C:\Users\XXX\AppData\Local\Microsoft\Windows\WER\ReportQueue 4. KAPE is a robust, free-software triage program that will target a device or storage location, find the most forensically important artifacts (based on your needs), and parse them within a few minutes. You can download it from here.12. Home > Poster > Intrusion Discovery Cheat Sheet for Windows Need help cutting through the noise? Download KAPE now. I’m proud to announce KAPE (Kroll Artifact Parser and Extractor) is now available for download.   KAPE is free for download here. Targets Targets are essentially collections of file and directory specifications. Using this tool you can find the vulnerability of any target to hack. You can download it from here.11. This file can be located under the path C:\$Recycle.Bin\SID*\$Rxxxxxx$1 file can be parsed using a tool $1 Parse.2. Browsers: Web browsers contain a lot of information like:Cookies.Cached website data.Downloaded files.3. Windows Error Reporting: This features enables user to inform Microsoft about application faults, kernel faults, unresponsive application, and other application specific problems. Because of its speed, KAPE allows investigators to find and prioritize the systems most critical for their case. They are located under the directory C:\Users\xxx\AppData\Roaming\Microsoft\Windows\Recent\CustomDestinationsYou can use tools like JumpList Explorer, JLECmd, or Windows JumpList Parser to parse Jump lists.7. Prefetch Files: These files contain a wealth of information like:Application Name.Application path.Last execution timestamp.Creation timestamp.These files can be located under the directory: C:\Windows\Prefetch\. Why use KAPE? Find all the SANS postershere. Each of these options would be contained in its own module and then grouped together based on commonality between the modules, such as “NetworkLiveResponse”, for example. You can download it from here.8. Forensic Investigator: This is a Splunk toolkit which is used in HEX conversion, Base64 conversion, metascan lookups, and many more other features that are essential in forensic analysis. Targets and modules are both written using YAML, which is easy to read and to write. If you also wanted to collect the output of netstat.exe or ipconfig /dnscache, you could do so as well. With key input from the digital forensics/incident response (DFIR) community, we also included predefined “targets” and “modules” for KAPE that help investigators gather a wider range of artifacts in a fraction of the time, enriching evidentiary libraries. You can download it from here.2. Magnet RAM Capture: This tool is used to analyze the physical memory of the system. While the imaging completes, the data generated by KAPE can be reviewed for leads, building timelines, etc. You can download it from here.10. Any object that contains some data or evidence of something that has occurred like logs, register, hives, and many more. These cache files can be located in the directory:C:\Users\XXX\AppData\Local\Microsoft\Terminal Server Client\CacheTools like BMC-Tools can be used to extract images stored in these cache files.5. LNK Files: .lnk files are the windows shortcut files. SANS has a massive list of Cheat Sheets available for quick reference. *Please note that some are hosted on Faculty websites and not SANS. Ultimately, a wider range of artifacts can be leveraged for any given requirement. You can download it from here.9. HashMyFiles: This tool is used to calculate the SHA1 and MD5 hashes. For files that are locked by the operating system, a second run bypasses the lock. KAPE is a multi-function program that primarily: collects files and processes collected files with one or more programs. You just need to identify your requirements and choose a tool that best suits your requirements. You can download it from here.There is such a large variety of forensic tools available in the market. This results in getting a copy of the file as it exists at the source. You can download it from here.4. RAM Capture: As the name suggests, this is a free tool that is used to extract the entire contents of the volatile memory i.e. RAM. KAPE reads configuration files on the fly and based on their contents, collects and processes relevant files. ExifTool: This tool is used to read, write, and edit meta information from a number of files. A Bit Deeper As mentioned earlier, KAPE has two primary phases: target collection and module execution. KAPE knows how to read these specifications and expand them to files and directories that exist on a target location. For example, if you collected jump lists, a tool like JLECmd could be used to dump the contents of the jump lists to CSV. This queue is then used to find and copy files from a source location. KAPE comes with many prebuilt targets and modules that can also serve as examples for building new ones in the future. This makes KAPE very extensible in that the program’s author does not need to be involved to add or expand functionality. The second (optional) stage of processing is to run one or more programs against the collected data. Having worked with and taught digital forensics for over 10 years in both law enforcement and enterprise environments, I understood how DFIR professionals could benefit from a program that collected and processed forensically valuable data quickly, potentially before any full system images were completed. These can also serve as models for creating new targets and modules. This tool supports PGP, Safe boot encrypted volumes, Bitlocker, etc. You can download it from here.5. NMAP: This is the most popular tool that is used to find open ports on the target machine. Remote Desktop Protocol Cache: When using the “mstc” client that is provided by the Windows, RDP can be used to move laterally through the network. You can download it from here.7. Autopsy: This is the GUI based tool, that is used to analyze hard disks and smartphones. You can find this file under the path C:\$Recycle.Bin\SID*\$Ixxxxxx$R file containing the contents of the deleted files. As we will see later in more detail, KAPE uses the concepts of targets and modules to do its work. So… What Exactly is KAPE? It works on all the latest websites. Offensive Operations Cloud Security Industrial Control Systems (ICS) ICS Program Security GuideICS Acronyms GuideICS Assessment Guide Cybersecurity Leadership All Around Defender Primers Linux CLI 101Linux CLIPowerShell PrimerPowerShell Get-WinEvent And don’t forget to check out our list of free posters. In this section, we will be going through some of the forensic artifacts that a forensic investigator look for while performing a Forensic analysis in Windows.1. Recylce Bin: The windows recycle bin contains some great artifacts like:$1 file containing the metadata. At the end of the process, KAPE will make a copy and preserve metadata about all available files from a source location into a given directory. They are located under the path:C:\Users\xxx\AppData\Roaming\Microsoft\Windows\Recent\AutomaticDestinationsCUSTOMDESTINATIONS-MS: These jump lists are custom made and are created when a user pins a file or an application. In short, KAPE gets you to the data (and its answers) much faster than more traditional means. After the primary queue is processed the secondary queue is processed and a different technique, using raw disk reads, is used to bypass the locks. In other words, an examiner no longer need to know how to process prefetch, shimcache, amcache, userassist, etc., as they relate to evidence of execution artifacts. General IT Security Digital Forensics and Incident Response The majority of DFIR Cheat Sheets can be foundhere. Two types of Jump Lists can be created in Windows:AUTOMATICDESTINATIONS-MS: These jump lists are created automatically when a user opens a file or an application. LNK files link or point to other files or executables for ease of access. Cache files are created containing the sections of the screen of the machine to which we are connected to and that is rarely changing. This feature was introduced with Windows 7. You can find following information in these files:The original path of the target file.Timestamp of both the target files and the .lnk files.File Attributes like System, Hidden, etc.Details about the disk.Remote or local execution.MAC address of the machines.You can use tools like Windows LNK Parsing Library or LECmd to parse the contents of these files.6. Jump Lists: They contain information about the recently accessed applications and files. FAW (Forensic Acquisition of Websites): This tool is used to acquire web pages image, HTML, source code of the web page. Modules Like targets, modules are defined using simple YAML properties and are used to run programs. Crowd Response: This tool is used to gather the system information for incident response. At a high level, KAPE works by adding file masks to a queue. When doing Windows Forensic Analysis, it can be quite overwhelming to see a large amount of data that one needs to collect, assuming you know what you are looking for. KAPE is an efficient and highly configurable triage program that will target essentially any device or storage location, find forensically useful artifacts, and parse them within a few minutes. You can download it from here.6. Network Miner: This tool is used as a passive network sniffer to capture or to detect the operating systems ports, sessions, hostnames, etc. Note: If you're using KAPE commercially, we now have an enterprise license that will enable you to use KAPE on any engagements. Once KAPE has processed all targets and has built a list of files, the list is processed, and each file is copied from the source to the destination directory. These programs can target anything, including files collected via the target capabilities as well as any other kinds of programs you may want to run on a system from a live response perspective. Some are free and open-source and some tools charge annual or monthly fees. So, In the end, we have a process that looks like this: Before exploring how KAPE delivers these results, either as a single operation or in stages, let’s first discuss the concepts of targets and modules. Various programs are run against the files, and the output from the programs is then saved in directories named after a category, such as EvidenceOfExecution, BrowserHistory or AccountUsage. Files that are locked by the operating system and cannot be copied by regular means are, added to a secondary queue. Regardless of how the file is copied (either by regular means or via raw access), the original timestamps from all directories and the files themselves are reapplied to the destination files. KAPE comes with a range of default targets and modules for operations most commonly required in forensic exams.

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