

Useful Bash Commands

sudo <command>

Run as user root

strings <file>

Extract all strings from a file

<command> | grep <parameters>

Search the output of the pipelined command

<command> | less

Send output to a scrollable form

gpg -d <in file> > <out file>

Decrypt and/or verify file

Hashing

sha256sum <file>

Calculate the sha256 hash of a file

md5sum <file>

Calculate the md5 hash of a file

Volatility

In Linux we use the command volatility, while in Windows, we usually use vol.exe and then the rest of the line. Getting the image information to enable use of advanced tools:

volatility imageinfo -f <imagefile.vmem>

Prefix for most commands:

volatility --profile=<profile from imageinfo's output> -f <imagefile.vmem> <volatility command>

For example:

volatility --profile=WinXPSP3x86 -f dump.vmem pslist

Processes

pslist

List the processes found

pstree

Display the processes found in a tree form

cmdline

Getting command-line parameters information

procdump -p <PID> --dump-dir <directory for dumped files>

This dumps the code of the process from the host's memory

memdump -p <PID> --dump-dir <directory for dumped files>

This dumps the memory used by the process

Networking

connscan

Display information about network connections

sockets

Display information about network sockets

netscan

This command finds TCP endpoints, TCP listeners, UDP endpoints, and UDP listeners

Registry

Hivelist

List existing registry hives

printkey -K <registry key>

Print a specific key and the information it holds

malfind --dump-dir <directory for dumped files>

Find malicious activities

Scalpel

Scalpel is a file carving and indexing application.

It has a configuration file (/etc/scalpel/scalpel.conf) that should be edited before execution.

Usage:

scalpel <binary file> -o <output folder>

scalpel -c /etc/scalpel/scalpel.conf -o <binary file>

Binwalk

Binwalk is an open-source firmware extraction tool that extracts embedded file systems from firmware images.

binwalk -Y <binary file>

Identify the CPU architecture of a binary file

binwalk -E <binary file>

Entropy analysis of a binary file

binwalk --extract <binary file>

Extract files from a binary file

binwalk -B <binary file>

Signature analysis