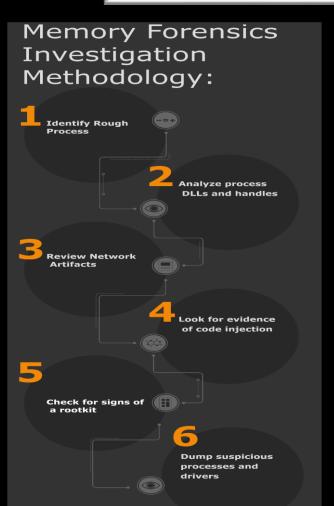


Memory Forensics Cheat-Sheet



Volatile Artifact Collector Source: https://github.com/cado-security/varc

Varc executed accross

Windows



OSX

AWS Lambda

Cloud environments such as AWS EC2

Containerised
Docker/Kubernetes
environments such as
AWS ECS/EKS/Fargate
and Azure AKS

Cloud Forensics using Varc:

python3 varc.py -h



python3 varc.py

(execute command.. To access some data, you will need to run with elevated privileges (i.e. sudo or root on Linux)

Varc Installation Process:

- 1. Clone the repository then install with: # python3 setup.py install
- 2. Then call with:
 #from varc import acquire_system
 #output_file_path = acquire_system().zip_path



Cheat-Sheet for Volatility 2 & Volatility 3

Information about OS

Information About	Plugins for Volatility 2	Plugins for Volatility 3	
IMAGEINFO	vol.py -f "/path/file" imageinfovol.py -f "/path/file" kdbgscan	• vol.py -f "/path/file" windows.info	
Information about Process			
Information About	Plugins for Volatility 2	Plugins for Volatility 3	
PSLIST	 vol.py -f "/path/file"profile <profile> pslist</profile> vol.py -f "/path/file"profile <profile> psscan</profile> vol.py -f "/path/file"profile <profile> pstree</profile> vol.py -f "/path/file"profile <profile> psxview</profile> 	 vol.py -f "/path/file" windows.pslist vol.py -f "/path/file" windows.psscan vol.py -f "/path/file" windows.pstree 	
PROCDUMP	 vol.py -f "/path/file"profile <profile> procdump -p <pid>dump- dir="/path/dir"</pid></profile> 	 vol.py -f "/path/file" -o "/path/dir" windows.dumpfilespid <pid></pid> 	
MEMDUMP	 vol.py -f "/path/file"profile <profile> memdump -p <pid>dump- dir="/path/dir"</pid></profile> 	 vol.py -f "/path/file" -o "/path/dir" windows.memmapdumppid <pid></pid> 	
HANDLES	 vol.py -f "/path/file"profile <profile> handles -p <pid></pid></profile> 	 vol.py -f "/path/file" windows.handlespid <pid></pid> 	
DLLS	 vol.py -f "/path/file"profile <profile> dlllist -p <pid></pid></profile> 	 vol.py -f "/path/file" windows.dlllistpid <pid></pid> 	
CMDLINE	 vol.py -f "/path/file"profile <profile> cmdline</profile> vol.py -f "/path/file"profile <profile> cmdscan</profile> vol.py -f "/path/file"profile <profile> consoles</profile> 	 vol.py -f "/path/file" windows.cmdline 	



Information about Network

Information About	Plugins for Volatility 2	Plugins for Volatility 3
NETSCAN	 vol.py -f "/path/file"profile <profile> netscan</profile> vol.py -f "/path/file"profile <profile> netstat</profile> For XP/2003 vol.py -f "/path/file"profile <profile> connscan</profile> vol.py -f "/path/file"profile <profile> connections</profile> vol.py -f "/path/file"profile <profile> sockscan</profile> vol.py -f "/path/file"profile <profile> sockets</profile> 	 vol.py -f "/path/file" windows.netscan vol.py -f "/path/file" windows.netstat

Information about Registry

Information About	Plugins for Volatility 2	Plugins for Volatility 3
HIVELIST	 vol.py -f "/path/file"profile <profile> hivescan</profile> vol.py -f "/path/file"profile <profile> hivelist</profile> 	 vol.py -f "/path/file" windows.registry.hivescan vol.py -f "/path/file" windows.registry.hivelist
PRINTKEY	 vol.py -f "/path/file"profile <profile> printkey</profile> vol.py -f "/path/file"profile <profile> printkey -K "Software\Microsoft\Windows\C urrentVersion"</profile> 	 vol.py -f "/path/file" windows.registry.printkey vol.py -f "/path/file" windows.registry.printkey key "Software\Microsoft\Windo ws\CurrentVersion"
HIVEDUMP	 vol.py -f "/path/file"profile hivedump -o <offset></offset> 	 vol.py -f "/path/file" -o "/path/dir" windows.dumpfiles physaddr <offset></offset>



Information about Files

Information About	Plugins for Volatility 2	Plugins for Volatility 3
FILESCAN	 vol.py -f "/path/file"profile <profile> filescan</profile> 	 vol.py -f "/path/file" windows.filescan
FILEDUMP	 vol.py -f "/path/file"profile <profile> dumpfilesdumpdir="/path/dir"</profile> vol.py -f "/path/file"profile <profile> dumpfilesdumpdir="/path/dir" -Q <offset></offset></profile> vol.py -f "/path/file"profile <profile> dumpfilesdumpdir="/path/dir" -p <pid></pid></profile> 	 vol.py -f "/path/file" -o "/path/dir" windows.dumpfiles vol.py -f "/path/file" -o "/path/dir" windows.dumpfiles virtaddr <offset></offset> vol.py -f "/path/file" -o "/path/dir" windows.dumpfiles physaddr <offset></offset>

Information about Miscellaneous Activity

Information About	Plugins for Volatility 2	Plugins for Volatility 3
MALFIND	 vol.py -f "/path/file"profile <profile> malfind</profile> 	 vol.py -f "/path/file" windows.malfind
YARASCAN	 vol.py -f "/path/file" yarascan -y "/path/file.yar" 	 vol.py -f "/path/file" windows.vadyarascanyararules <string></string> vol.py -f "/path/file" windows.vadyarascanyarafile "/path/file.yar" vol.py -f "/path/file" yarascan.yarascanyara-file "/path/file.yar"