



► Analyzing Windows Memory dumps to identify any malicious artifacts

Identify Indicators of Compromise (IoCs)

- Look out for any Rogue Processes
- **Examine Process Objects**
- Find any Code injection indicators
- **Dump suspicious processes**
- Monitor any unusual network activity
- Check registry entries

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▶ Dumping Windows OS Memory for analysis

Use DumpIt tool to create memory dump

Extract information about memory images like profile etc. \$ vol.py -f <memory_dump_file > imageinfo

To list all processes and identify any hidden processes \$ vol.py -f <memory_dump_file> --profile= <Identified_Profile>pslist/psscan

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► Extracting Artifacts

To list all network connection states and verifying which network connections are made by valid processes

\$ vol.py -f <memory_dump_file> --profile=<Identified_Profile> netscan/connscan

Printing memory addresses and paths of registry hives

\$ vol.py -f <memory_dump_file> --profile=<Identified_Profile> hivelist

Printing values of a specific registry key

\$ vol.py -f <memory_dump_file> --profile=<Identified_Profile> printkey -K "<path\to\key\value>"

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► Identifying malicious processes

Checking for any potential code or DLL injections using built-in Volatility module

\$ vol.py-f <memory_dump_file> --profile=<Idenitified_Profile> malfind

Dumping suspicous looking processes

\$ vol.py-f <memory_dump_file> --profile=<Identified_Profile> procdump -D "<path\to\dump\dir>"-p <PID>

Comparing YARA rules against suspicious processes

\$ vol.py -f <memory_dump_file> --profile=<Identified_Profile> yarascan -p <PID> -y "<rules.yara>"

Checking dumped executable against an Anti-Virus like ClamAV. (You may also upload it to Virustotal)

\$ clamscan </path/to/file>







