

☐ THE ANALYST'S BIBLE: TACTICAL FIELD MANUAL

The Definitive SOC Command Reference. No Fluff. Pure Syntax.

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1. ☐ WINDOWS: LIVE TRIAGE & FORENSICS

A. Network Connections (Netstat/PowerShell)

1. `netstat -ano` (Basic mapping of ports to PIDs)
2. `netstat -anob` (Requires Admin: Shows executable name)
3. `netstat -f` (Resolves FQDNs - useful for spotting weird domains)
4. `netstat -e -t 5` (Ethernet stats, refresh every 5s)
5. `Get-NetTCPConnection` (PowerShell object-based netstat)
6. `Get-NetTCPConnection -State Establish` (Show only established)
7. `Get-NetTCPConnection -RemoteAddress 192.168.1.0/24` (Filter by subnet)
8. `Get-NetUDPEndpoint` (List UDP listeners)
9. `Get-SmbConnection` (List active SMB shares mapped)
10. `Get-SmbSession` (List who is connected to YOUR shares)
11. `Get-SmbOpenFile` (List files currently open via SMB)
12. `Get-DnsClientCache` (View local DNS cache)

13. `Clear-DnsClientCache` (Flush DNS)
14. `ipconfig /displaydns` (CMD version of DNS cache)
15. `route print` (View routing table - look for VPN/Tunnel interfaces)
16. `arp -a` (View ARP cache - look for spoofing)
17. `Get-NetAdapter` (List physical/virtual interfaces)
18. `Get-NetFirewallRule -Enabled True` (List active FW rules)
19. `Get-NetFirewallRule -Direction Inbound -Action Allow` (Audit inbound allowances)
20. `Test-NetConnection -ComputerName 8.8.8.8 -Port 53` (Ping/Port check)

B. Process Inspection

21. `tasklist` (Basic list)
22. `tasklist /v` (Verbose: Shows User context - CRITICAL)
23. `tasklist /svc` (Shows Service hosting per PID)
24. `tasklist /m` (Shows DLLs loaded per PID - noisy but useful)
25. `Get-Process` (Basic PS list)
26. `Get-Process -IncludeUserName` (Needs Admin: Shows owners)
27. `Get-Process | Where-Object {$_.MainWindowTitle}` (Find visible apps)
28. `Get-Process | Sort-Object CPU -Descending | Select -First 10` (Top CPU hogs)
29. `wmic process list brief` (WMIC legacy list)
30. `wmic process get name,parentprocessid,processid` (Parent-Child mapping)
31. `wmic process where "name='cmd.exe'" get commandline` (Get CMD Args)
32. `Get-WmiObject Win32_Process | Select Name, CommandLine` (PS version of above)
33. `Get-CimInstance Win32_Process | Select Name, ParentProcessId` (Modern PS)
34. `query process` (Terminal Services view)
35. `handle.exe -a -u` (Sysinternals: Show open handles)
36. `listdlls.exe` (Sysinternals: Show loaded DLLs)
37. `procexp.exe` (Process Explorer GUI)
38. `procmon.exe` (Process Monitor GUI)

C. User & Group Enumeration

39. `whoami` (Current user)
40. `whoami /priv` (Check integrity/privileges)
41. `whoami /groups` (Check SIDs)
42. `whoami /all` (Full dump)
43. `net user` (List local users)
44. `net user administrator` (Check Admin account details)
45. `net user /domain` (List Domain Users - NOISY)
46. `net user <username> /domain` (Targeted domain query)
47. `net localgroup` (List local groups)
48. `net localgroup administrators` (Who is Local Admin?)

- 49. net localgroup "Remote Desktop Users" (Check RDP access)
- 50. net group "Domain Admins" /domain (The Crown Jewels)
- 51. net group "Enterprise Admins" /domain (Forest Admins)
- 52. net accounts (Password policy)
- 53. Get-LocalUser (PS Local Users)
- 54. Get-LocalGroupMember -Group Administrators (PS Admin check)
- 55. Get-ADUser -Filter * -Properties LastLogonDate (Active Directory Module)
- 56. cmdkey /list (List stored Windows Credentials - often used by attackers)
- 57. vaultcmd /list (List Credential Vaults)

D. Registry & Persistence (The "Run" Keys)

- 58. Get-ItemProperty HKLM:\Software\Microsoft\Windows\CurrentVersion\Run (System Run)
- 59. Get-ItemProperty HKLM:\Software\Microsoft\Windows\CurrentVersion\RunOnce (Run Once)
- 60. Get-ItemProperty HKCU:\Software\Microsoft\Windows\CurrentVersion\Run (User Run)
- 61. Get-ItemProperty HKCU:\Software\Microsoft\Windows\CurrentVersion\RunOnce
- 62. Get-ItemProperty HKLM:\Software\WOW6432Node\Microsoft\Windows\CurrentVersion\Run (32-bit apps)
- 63. reg query HKLM\System\CurrentControlSet\Services (List services in Reg)
- 64. reg query "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon" (Check Shell/Userinit)
- 65. reg query HKLM\System\CurrentControlSet\Control\Session Manager\KnownDlls (DLL Hijacking)
- 66. reg query HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist (GUI execution history)
- 67. reg query "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Image File Execution Options" (IFEO Debugger keys)
- 68. reg query HKCU\Environment (User Environment Variables)
- 69. reg query "HKLM\SYSTEM\CurrentControlSet\Control\Terminal Server" /v fDenyTSConnections (RDP Status)

E. File System Forensics

- 70. dir /a /s /b *.exe (Recursive search for EXEs)
- 71. dir /ah (Show hidden files)
- 72. dir /ods (Sort by date ascending)
- 73. attrib -h -s -r *.* (Unhide all files in cwd)
- 74. Get-ChildItem -Force (List hidden in PS)
- 75. Get-ChildItem -Recurse -Include *.ps1 (Find scripts)
- 76. Get-FileHash -Algorithm SHA256 .\suspicious.exe (Calculate Hash)
- 77. Get-Content .\file.txt -Wait (Like Linux 'tail -f')
- 78. Get-Content .\file.txt -Stream Zone.Identifier (Read MotW - Download source)
- 79. type C:\Windows\System32\drivers\etc\hosts (Check Hosts file)

- 80. `forfiles /p C:\Windows\System32 /m *.exe /c "cmd /c echo @path"` (Iterate files)
- 81. `cipher /c \path\to\file` (Check encryption status)
- 82. `manage-bde -status` (BitLocker status)
- 83. `fsutil usn readjournal C:` (Read USN Journal - Advanced)

F. Event Logs (Get-WinEvent)

- 84. `Get-WinEvent -ListLog *` (List all logs)
- 85. `Get-WinEvent Security -MaxEvents 10` (Head of Security log)
- 86. `Get-WinEvent -FilterHashtable @{LogName='Security';ID=4624}` (Logon Success)
- 87. `Get-WinEvent -FilterHashtable @{LogName='Security';ID=4625}` (Logon Fail)
- 88. `Get-WinEvent -FilterHashtable @{LogName='Security';ID=4720}` (User Created)
- 89. `Get-WinEvent -FilterHashtable @{LogName='Security';ID=4726}` (User Deleted)
- 90. `Get-WinEvent -FilterHashtable @{LogName='Security';ID=4732}` (Group Member Add)
- 91. `Get-WinEvent -FilterHashtable @{LogName='Security';ID=1102}` (Log Clear)
- 92. `Get-WinEvent -FilterHashtable @{LogName='System';ID=7045}` (Service Install)
- 93. `Get-WinEvent -FilterHashtable @{LogName='System';ID=104}` (Log Clear System)
- 94. `Get-WinEvent -FilterHashtable @{LogName='Microsoft-Windows-PowerShell/Operational';ID=4104}` (Script Block)
- 95. `Get-WinEvent -FilterHashtable @{LogName='Microsoft-Windows-Sysmon/Operational';ID=1}` (Process Create)
- 96. `Get-WinEvent -FilterHashtable @{LogName='Microsoft-Windows-Sysmon/Operational';ID=3}` (Net Connect)
- 97. `Get-WinEvent -FilterHashtable @{LogName='Microsoft-Windows-Sysmon/Operational';ID=11}` (File Create)
- 98. `Get-WinEvent -FilterHashtable @{LogName='Microsoft-Windows-Sysmon/Operational';ID=13}` (Reg Set)
- 99. `Get-WinEvent -FilterHashtable @{LogName='Microsoft-Windows-Sysmon/Operational';ID=22}` (DNS Query)
- 100. `wevtutil qe Security /f:text /c:5` (CMD Query Events)

G. Scheduled Tasks (Deep Dive)

- 101. `Get-ScheduledTask` (List all)
- 102. `Get-ScheduledTask | Where State -eq 'Ready'`
- 103. `Get-ScheduledTask | Get-ScheduledTaskInfo | Select TaskName, LastRunTime`
- 104. `schtasks /query /xml` (Export to XML)
- 105. `schtasks /delete /tn "MaliciousTask"` (Delete)

H. WMIC (The Old Magic)

- 106. `wmic startup list full`
- 107. `wmic service list brief`

108. `wmic process call create "calc.exe"` (Lateral Movement technique)
109. `wmic useraccount list full`
110. `wmic group list full`
111. `wmic nicconfig get description,ipaddress`
112. `wmic qfe list` (List Patches/Updates)
113. `wmic logicaldisk get name,size,freespace`
114. `wmic product get name,version` (List installed software - Slow)
115. `wmic share get name,path`

I. PowerShell (The New Magic)

116. `Get-HotFix` (List Updates)
117. `Get-Service | Select-Object Name, StartType, Status`
118. `Get-Clipboard` (View clipboard contents)
119. `Get-History` (View PS Session History)
120. `(Get-PSReadlineOption).HistorySavePath` (Find history file)
121. `cat (Get-PSReadlineOption).HistorySavePath` (Read history file)
122. `Invoke-WebRequest "http://ifconfig.me/ip"` (External IP check)
123. `Get-MpComputerStatus` (Defender Status)
124. `Get-MpThreat` (Defender detected threats)
125. `Set-MpPreference -DisableRealtimeMonitoring $true` (The attackers move)

2. LINUX: HARDENING & HUNTING

J. System & Account Triage

126. `id` (Current user context)
127. `who` (Who is logged in)
128. `w` (Who is logged in + what are they doing)
129. `last` (Login history)
130. `lastb` (Failed login history - BTMP)
131. `cat /etc/passwd` (List users)
132. `grep -vE "nologin|false" /etc/passwd` (List humans/services with shells)
133. `cat /etc/shadow` (Hashes - Root only)
134. `cat /etc/group` (Groups)
135. `visudo -c` (Check sudoers integrity)
136. `awk -F: '($3 == "0") {print}' /etc/passwd` (Find UID 0 users)
137. `cat /root/.bash_history` (Root history)
138. `cat /home/*/.bash_history` (User history)
139. `history` (Current session history)
140. `uptime` (System uptime)

- 141. `uname -r` (Kernel version)
- 142. `hostnamectl` (Host details)
- 143. `env` (Environment variables)

K. Network & Sockets

- 144. `ss -tulpn` (TCP/UDP, Listening, Process, Numeric)
- 145. `ss -ant` (Show all TCP, numeric)
- 146. `netstat -antup` (Classic version)
- 147. `lsof -i` (List open network files)
- 148. `lsof -i :80` (Who is using port 80?)
- 149. `lsof -i TCP:22`
- 150. `nc -zv 127.0.0.1 22` (Netcat port check)
- 151. `ip addr` (Interfaces)
- 152. `ip route` (Routing table)
- 153. `arp -a` (ARP cache)
- 154. `cat /etc/resolv.conf` (DNS servers)
- 155. `cat /etc/hosts` (Local DNS)
- 156. `tcpdump -i eth0 -n` (Sniff traffic)
- 157. `iftop` (Bandwidth monitor)

L. Process & Services

- 158. `ps aux` (All processes)
- 159. `ps -ef --forest` (Process tree view)
- 160. `top -c` (Realtime resource with full commands)
- 161. `htop` (Colorful top)
- 162. `chkconfig --list` (Legacy services)
- 163. `service --status-all` (Init.d services)
- 164. `systemctl list-units --type=service` (Systemd services running)
- 165. `systemctl list-unit-files --state=enabled` (Enabled at boot)
- 166. `systemctl status sshd`
- 167. `strace -p <pid>` (Debug process calls)
- 168. `watch -n 1 "ps -ef | grep www-data"` (Monitor specific user)

M. File System Forensics

- 169. `ls -la` (List all, hidden)
- 170. `ls -R` (Recursive)
- 171. `ls -latr` (Sort by time reverse - see recent at bottom)
- 172. `find / -name ".*"` (Find hidden files)
- 173. `find / -mtime -1` (Modified in last 24h)
- 174. `find / -atime -1` (Accessed in last 24h)

- 175. `find / -ctime -1` (Created/Change in last 24h)
- 176. `find / -perm -4000` (Find SUID binaries)
- 177. `find / -perm -2000` (Find SGID binaries)
- 178. `find / -type f -size +100M` (Huge files)
- 179. `find / -user www-data` (Files owned by web user)
- 180. `grep -r "base64" /var/www/html` (Search webroot for encoding)
- 181. `grep -r "shell_exec" /var/www/html` (Search for webshells)
- 182. `stat file.txt` (Detailed timestamps)
- 183. `file file.exe` (Determine file type magic bytes)
- 184. `strings file.exe` (Extract text from binary)
- 185. `diff file1 file2` (Compare files)
- 186. `md5sum file`
- 187. `sha256sum file`
- 188. `chattr -i file` (Remove immutable flag)
- 189. `lsattr` (List attributes)
- 190. `du -Sh / | sort -rh | head -5` (Disk Usage)

N. Log Files (The Usual Suspects)

- 191. `/var/log/syslog` (Debian/Ubuntu general)
- 192. `/var/log/messages` (RHEL/CentOS general)
- 193. `/var/log/auth.log` (Auth attempts - GOLD)
- 194. `/var/log/secure` (Auth on RHEL)
- 195. `/var/log/kern.log` (Kernel errors)
- 196. `/var/log/dmesg` (Boot logs)
- 197. `/var/log/cron` (Cron job logs)
- 198. `/var/log/boot.log`
- 199. `/var/log/apache2/access.log` (Web access)
- 200. `/var/log/nginx/access.log`
- 201. `tail -f /var/log/auth.log` (Follow live)
- 202. `journalctl -xe` (Systemd logs)
- 203. `journalctl -u sshd` (SSH logs via systemd)
- 204. `journalctl --since "1 hour ago"`

O. Auditd (The Linux Sysmon)

- 205. `auditctl -l` (List rules)
- 206. `auditctl -s` (Status)
- 207. `ausearch -m USER_LOGIN`
- 208. `ausearch -m EXECVE`
- 209. `ausearch -m AVC` (AppArmor/SELinux denials)
- 210. `ausearch -f /etc/shadow` (Who touched shadow?)

- 211. `aureport -l` (Login summary)
 - 212. `aureport -p` (Process summary)
-

3. NETWORK: PACKET ANALYSIS (NTA)

P. Tcpdump Filters (Capture)

- 213. `tcpdump -i eth0` (Default interface)
- 214. `tcpdump -i any` (All interfaces)
- 215. `tcpdump -n` (No DNS resolution)
- 216. `tcpdump -nn` (No port resolution)
- 217. `tcpdump -v` (Verbose)
- 218. `tcpdump -X` (Show Hex/ASCII payload)
- 219. `tcpdump -A` (Show ASCII payload - Good for HTTP)
- 220. `tcpdump host 1.2.3.4` (Filter by IP)
- 221. `tcpdump src 1.2.3.4` (Filter source)
- 222. `tcpdump dst 1.2.3.4` (Filter dest)
- 223. `tcpdump net 192.168.1.0/24` (Subnet)
- 224. `tcpdump port 80`
- 225. `tcpdump portrange 21-23`
- 226. `tcpdump not port 22` (Exclude SSH)
- 227. `tcpdump "tcp[tcpflags] & (tcp-syn) != 0"` (Capture SYN packets)
- 228. `tcpdump -w monitor.pcap` (Write to file)
- 229. `tcpdump -r monitor.pcap` (Read file)
- 230. `tcpdump -G 3600 -w ROTATE_%Y%m%d.pcap` (Rotate every hour)

Q. Tshark (CLI Wireshark)

- 231. `tshark -D` (List interfaces)
- 232. `tshark -r file.pcap` (Read)
- 233. `tshark -r file.pcap -Y "ip.addr == 1.2.3.4"` (Display filter)
- 234. `tshark -r file.pcap -Y "http"`
- 235. `tshark -r file.pcap -Y "dns"`
- 236. `tshark -r file.pcap -Y "smb"`
- 237. `tshark -r file.pcap -T fields -e ip.src -e ip.dst` (Extract fields)
- 238. `tshark -r file.pcap -T fields -e http.host` (Extract Host headers)
- 239. `tshark -r file.pcap -T fields -e dns.qry.name` (Extract DNS queries)
- 240. `tshark -r file.pcap -q -z conv,ip` (IP Conversations)
- 241. `tshark -r file.pcap -q -z io,phs` (Protocol Hierarchy)

242. `tshark -r file.pcap --export-objects http,./dump` (Rip files)

R. Zeek (Bro) One-Liners

243. `zeek -r traffic.pcap` (Generate logs)

244. `cat conn.log | zeek-cut id.orig_h id.resp_h id.resp_p service`

245. `cat dns.log | zeek-cut query`

246. `cat http.log | zeek-cut host uri`

247. `cat ssl.log | zeek-cut server_name`

248. `cat files.log | zeek-cut mime_type md5` (File extraction metadata)

249. `cat weird.log` (Protocol anomalies)

S. Nmap (Network Mapping)

250. `nmap 192.168.1.1` (Scan single)

251. `nmap -sn 192.168.1.0/24` (Ping sweep)

252. `nmap -p 80,443 192.168.1.0/24` (Target ports)

253. `nmap -p- 192.168.1.1` (All 65535 ports)

254. `nmap -sV 192.168.1.1` (Version detection)

255. `nmap -O 192.168.1.1` (OS detection)

256. `nmap -A 192.168.1.1` (Aggressive)

257. `nmap --script vulners 192.168.1.1` (Vuln scan)

258. `nmap --script smb-os-discovery` (SMB Enumeration)

4. SIEM OPERATIONS

T. Splunk (SPL)

259. `index=*` (Search all)

260. `sourcetype=xmlwineventlog`

261. `host="server01"`

262. `source="/var/log/syslog"`

263. `| head 10`

264. `| tail 10`

265. `| stats count`

266. `| stats count by src_ip`

267. `| stats count by src_ip, dest_ip`

268. `| stats distinct_count(user) as "Unique Users"`

269. `| timechart span=1h count`

270. `| top limit=20 src_ip`

271. `| rare user`

```

272. | sort - count
273. | rename src_ip as "Source Address"
274. | fields - _raw (Performance boost)
275. | table _time, src_ip, user, action
276. | lookup threat_intel_ip ip AS src_ip OUTPUT malicious_confidence
277. Brute Force: index=win EventCode=4625 | stats count by src_ip | where count > 20
278. Pass Spray: index=win EventCode=4625 | stats dc(user) as distinct_users by src_ip |
    where distinct_users > 10
279. New Admin: index=win EventCode=4732 Group_Name="Administrators"
280. Log Clearing: index=win EventCode=1102
281. Process Crash: index=win EventCode=1000
282. Rare Parent: index=win EventCode=1 | stats count by ParentImage, Image | sort count
283. Encoded PS: index=win EventCode=1 CommandLine="*-emp*"
284. Data Exfil: index=fw bytes_out > 10000000 | stats sum(bytes_out) by src_ip

```

U. Elastic (KQL/Lucene)

```

285. event.code: 4624
286. winlog.event_data.LogonType: 3 (Network Logon)
287. process.name: "cmd.exe"
288. user.name: "Administrator"
289. kibana.alert.severity: "high"
290. destination.ip: 10.0.* (CIDR search)
291. NOT process.name: "svchost.exe"
292. event.category: "process" AND event.type: "start"
293. file.extension: "exe" OR file.extension: "dll"
294. process.command_line: *mimikatz*

```

5. ☐ ADVANCED: MEMORY & MALWARE

V. Volatility 3 (Memory Forensics)

```

295. python3 vol.py -f mem.dmp windows.info
296. python3 vol.py -f mem.dmp windows.pslist
297. python3 vol.py -f mem.dmp windows.psscan (Unlinked procs)
298. python3 vol.py -f mem.dmp windows.pstree (Parent/Child)
299. python3 vol.py -f mem.dmp windows.procdump --pid <PID> (Extract exe)
300. python3 vol.py -f mem.dmp windows.dlllist
301. python3 vol.py -f mem.dmp windows.handles
302. python3 vol.py -f mem.dmp windows.netscan (Connections)
303. python3 vol.py -f mem.dmp windows.netstat

```

```
304. python3 vol.py -f mem.dmp windows.malfind (Injected code)
305. python3 vol.py -f mem.dmp windows.cmdline
306. python3 vol.py -f mem.dmp windows.registry.printkey
307. python3 vol.py -f mem.dmp windows.registry.hivelist
308. python3 vol.py -f mem.dmp windows.svcscan
309. python3 vol.py -f mem.dmp windows.driverscan
310. python3 vol.py -f mem.dmp windows.memmap (Memory pages)
```

W. Malware Static Analysis

```
311. strings malware.exe (ASCII strings)
312. strings -el malware.exe (Wide/Unicode strings)
313. floss malware.exe (Obfuscated strings tool)
314. pestudio malware.exe (GUI Analysis)
315. capa malware.exe (Identify capabilities)
316. peframe malware.exe
317. objdump -d malware.exe (Disassemble)
318. upx -d malware.exe (Decompress UPX)
319. binwalk malware.exe (Find embedded files)
320. foremost -i memory.dmp (Carve files)
```

X. Base64 & Decoding

```
321. echo "base64string" | base64 -d
322. certutil -decode input.txt output.bin (Windows native)
323. python3 -c "import base64; print(base64.b64decode('...'))"
324. xxd -r -p input.hex output.bin (Reverse Hex)
```

6. ☐ INCIDENT RESPONSE: CONTAINMENT

```
325. netsh advfirewall set allprofiles state on
326. netsh advfirewall set allprofiles firewallpolicy blockinbound,blockoutbound (Hard Cut)
327. ipconfig /release (DHCP drop)
328. Disable-NetAdapter -Name "Ethernet" (Kill Interface)
329. ufw enable
330. ufw default deny incoming
331. ufw default deny outgoing
332. iptables -P INPUT DROP
333. iptables -P OUTPUT DROP
```

334. `ifconfig eth0 down`
335. `taskkill /PID 1234 /F` (Windows Force)
336. `taskkill /IM malware.exe /F` (By Name)
337. `kill -9 1234` (Linux SIGKILL)
338. `pkill -9 malware` (Pattern kill)
339. `net user <user> /active:no` (Windows Disable)
340. `usermod -L <user>` (Linux Lock)
341. `passwd -l <user>` (Linux Lock alt)

7. CONTAINER FORENSICS

Y. Docker Investigations

342. `docker ps` (List running)
343. `docker ps -a` (List all including stopped)
344. `docker inspect <container_id>` (View configuration/IPs)
345. `docker top <container_id>` (View processes inside)
346. `docker logs <container_id>` (View stdout logs)
347. `docker diff <container_id>` (View changed files)
348. `docker cp <container_id>:/path/to/file ./local` (Extract evidence)
349. `docker history <image_id>` (View image layers)
350. `docker network ls` (View networks)
351. `docker network inspect <network_id>`
352. `docker volume ls`
353. `docker volume inspect <volume_name>`
354. `docker exec -it <container> /bin/sh` (Enter shell)
355. `docker stats --no-stream` (Resource usage)
356. `docker events --since 24h` (Daemon events)
357. `docker export <container_id> > container.tar` (Snapshot FS)
358. `docker save <image_id> > image.tar` (Save image)

Z. Kubernetes (K8s) Triage

359. `kubectl get pods -A` (List all pods)
360. `kubectl get nodes -o wide`
361. `kubectl describe pod <pod_name>`
362. `kubectl logs <pod_name>`
363. `kubectl logs <pod_name> -c <container_name>` (Multi-container pod)
364. `kubectl logs -p <pod_name>` (Previous crashed instance logs)
365. `kubectl get events --sort-by='.lastTimestamp'`
366. `kubectl get secrets`

367. kubectl get configmaps
368. kubectl get roles,rolebindings (RBAC check)
369. kubectl auth can-i create pods --as system:serviceaccount (Priv check)
370. kubectl exec -it <pod> -- /bin/sh
371. kubectl cp <pod>:/file ./local
372. kubectl get services
373. kubectl get ingress
374. kubectl cluster-info
375. kubectl api-resources --verbs=list
376. kubectl get networkpolicies
377. kubectl get serviceaccounts
378. kubectl get daemonsets
379. kubectl get deployments
380. kubectl get namespaces

8. macOS FORENSICS

AA. System & Triage

381. system_profiler SPSoftwareDataType (OS Info)
382. log show --predicate 'eventMessage contains "password"' --last 1h (Unified Log)
383. log show --style syslog --last 1d
384. kextstat | grep -v com.apple (Non-Apple Kernel Extensions)
385. launchctl list (List LaunchDaemons/Agents - Persistence)
386. ls -la /Library/LaunchDaemons
387. ls -la /Library/LaunchAgents
388. ls -la ~/Library/LaunchAgents
389. ls -la /Library/StartupItems (Legacy persistence)
390. pmset -g log (Power management logs - sleep/wake)
391. csrutil status (SIP status)
392. spctl --status (Gatekeeper status)
393. history (Zsh history)
394. lsof +c 0 (List open files)
395. netstat -na | grep LISTEN
396. ps aux
397. dscacheutil -q group (List groups)
398. dscacheutil -q user (List users)
399. security dump-keychain (Dump keychain info - risky)
400. fdsetup status (FileVault status)

AB. File System Artifacts

- 401. `/var/db/lsd/com.apple.lsd.map` (App usage)
 - 402. `~/Library/Safari/History.db`
 - 403. `~/Library/Messages/chat.db` (iMessage)
 - 404. `mdfind -name "malware"` (Spotlight search CLI)
 - 405. `mdls <file>` (Metadata list)
 - 406. `xattr -l <file>` (Extended attributes - Quarantine tag)
 - 407. `ls -lO` (List file flags like hidden)
 - 408. `stat -x <file>`
 - 409. `hdiutil info` (Mounted disk images)
 - 410. `diskutil list`
-

9. ☐ ACTIVE DIRECTORY DEEP DIVE

AC. Enumeration (PowerView/Native)

- 411. `Get-NetDomain` (Domain info)
- 412. `Get-NetDomainController`
- 413. `Get-NetComputer -Ping` (Live computers)
- 414. `Get-NetGroupMember -GroupName "Domain Admins"`
- 415. `Get-NetShare`
- 416. `Get-NetGPO`
- 417. `Get-NetGPOGroup` (Restricted groups)
- 418. `Get-ObjectAcl -SamAccountName Administrator -ResolveGUIDs` (ACLs)
- 419. `Find-LocalAdminAccess` (Where am I admin?)
- 420. `Get-DomainTrust`
- 421. `Get-NetUser -SPN` (Kerberoasting targets)
- 422. `Get-DFSShare`
- 423. `nltest /domain_trusts`
- 424. `nltest /dclist:domain`
- 425. `dsquery user`
- 426. `dsquery group`
- 427. `dsquery computer`
- 428. `repadmin /replsummary` (Replication health)
- 429. `repadmin /showrepl`
- 430. `dcdiag` (DC Diagnostics)

AD. Attack Detection (Specifics)

- 431. `(Get-ADUser -Filter {AdminCount -eq 1}).SamAccountName` (Protected users)

432. `Get-ADUser -Filter {DoesNotRequirePreAuth -eq $true}` (AS-REP Roasting)
433. `Get-ADObject -Filter {msDS-AllowedToDelegateTo -ne "$null"}` (Constrained Delegation)
434. `Get-ADUser -Filter {SidHistory -ne "$null"}` (SID History injection)
435. `Get-ADGroup -Filter {Name -like "*Admin*"}` (Shadow Admin groups)
436. `Get-WinEvent -LogName "Directory Service"`
437. `ntdsutil "ac i ntds" "quit" "quit"` (Audit snapshot usage)
438. `klist` (List Kerberos tickets)
439. `klist purge` (Clear tickets)
440. `klist tgt`

10. REVERSE ENGINEERING & DEBUGGING

AE. GDB (Linux Debugger)

441. `gdb ./program`
442. `run <args>`
443. `break main`
444. `info registers`
445. `x/10i $rip` (Examine instructions at IP)
446. `x/10s $rsp` (Examine string at SP)
447. `next / step`
448. `continue`
449. `disassemble main`
450. `bt` (Backtrace)

AF. Radare2 (r2)

451. `r2 ./program`
452. `aaa` (Analyze all)
453. `afl` (Analyze functions list)
454. `pdf @ main` (Print Disassembly Function)
455. `iz` (Print strings in data section)
456. `ii` (Print imports)
457. `s main` (Seek to main)
458. `v` (Visual mode)
459. `vv` (Visual Graph mode)
460. `wx 9090` (Write NOPs)

AG. Windows Debugging (WinDbg)

461. `lm` (List modules)
462. `!analyze -v` (Auto analyze crash)
463. `kb` (Stack trace)
464. `da <address>` (Dump ASCII)
465. `du <address>` (Dump Unicode)
466. `dd <address>` (Dump Dword)
467. `!process 0 0` (List all procs)
468. `!process <addr> 7` (Detail proc)
469. `!gle` (Get Last Error)
470. `bp <address>` (Breakpoint)

11. YARA & SIGMA ENGINEERING

AH. YARA Rule Syntax

471. `rule Detect_Malware { ... }`
472. `strings: $a = "evil_string"`
473. `strings: $b = { 4D 5A 90 00 }` (Hex/Magic Bytes)
474. `condition: $a and $b`
475. `condition: any of them`
476. `condition: $a at 0` (String at entry)
477. `condition: filesize < 100KB`
478. `condition: uint16(0) == 0x5A4D` (MZ Header)
479. `yara rule.yar file.exe` (Run scan)
480. `yara -r rule.yar directory/` (Recursive scan)

AI. Sigma Rule Basics

481. `title: Suspicious Process`
482. `logsource: category: process_creation`
483. `detection: selection: Image: '*\cmd.exe'`
484. `detection: condition: selection`
485. `dict_to_sigma.py` (Custom tool)
486. `sigma-cli check rule.yml`
487. `sigma-cli convert -t splunk rule.yml`
488. `sigma-cli convert -t elasticsearch rule.yml`

AJ. Miscellaneous & Google Hacking (Dorks)

489. `site:pastebin.com "password"`
490. `filetype:config "db_password"`

491. inurl:gitlab "password"
492. inurl:s3.amazonaws.com "secret"
493. ext:log "username"
494. intitle:"index of" "backup"
495. intext:"BEGIN RSA PRIVATE KEY"
496. ssh-keygen -t ed25519 (Generate secure keys)
497. openssl s_client -connect google.com:443 (Check SSL)
498. openssl x509 -in cert.pem -text -noout (Read Cert)
499. gpg --gen-key
500. base64 /dev/urandom | head -c 32 (Generate Random Pass)
