

□ 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" (IEFO 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"' /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. fdesetup 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)
```

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