

100 FREE SECURITY TOOLS

For ethical hackers and forensic investigators



INSIDE CLOUD
AND SECURITY

100 FREE SECURITY TOOLS

For ethical hackers and forensic investigators

1. **Autopsy** - Open source digital forensics platform to analyze hard drives and smart phones
<https://www.autopsy.com>
2. **EnCase** - Commercial computer forensics software for e-discovery and investigations by OpenText
<https://www.opentext.com/products-and-solutions/products/software/encase-platform>
3. **AccessData (FTK)** - Forensic toolkit computer investigation software by AccessData
<https://accessdata.com/products-services/forensic-toolkit-ftk>
4. **X-Ways Forensics** - Integrated computer forensics software by X-Ways Software Technology <http://www.x-ways.net/forensics/>
5. **Sleuth Kit** - Open source digital forensics tools for analyzing disk images and file systems
<https://www.sleuthkit.org>
6. **Volatility** - Memory forensics framework to analyze volatile memory dumps and artifacts
<https://www.volatilityfoundation.org/>
7. **Wireshark** - Network protocol analyzer useful for network forensics and traffic analysis
<https://www.wireshark.org>
8. **Cellebrite UFED** - Commercial mobile forensic software to extract data from phones and tablets
<https://www.cellebrite.com/en/ufed-ultimate/>
9. **Email Collector** - Tool to collect and analyze email data during investigations
<https://www.accessdata.com/products-services/e-discovery/email-examination/ftk-email-collector>
10. **Forensics (DFF)** - Digital forensics framework, an open source platform for investigations
<https://github.com/arxsys/dff>
11. **Magnet AXIOM** - Commercial digital investigations platform from Magnet Forensics
<https://www.magnetforensics.com/products/magnet-axiom/>
12. **Oxygen Detective** - Cloud extraction tool for investigations involving cloud services <https://www.oxygen-forensic.com/en/oxygen-detective>
13. **OSForensics** - Specialized forensics tools for Microsoft systems from PassMark
<https://www.osforensics.com/>
14. **NetworkMiner** - Open source network forensic analyzer useful for investigating traffic
<http://www.netresec.com/?page=NetworkMiner>
15. **RegRipper** - Tool to parse Windows registry files and dig for useful data
<https://github.com/keydet89/RegRipper3.0>
16. **Bulk Extractor** - Scans disk images and extract interesting bits of data
https://github.com/simsong/bulk_extractor
17. **Ghiro** - Web site screenshots and analysis for forensic investigations <http://www.getghiro.org/>
18. **Scalpel** - File carver which recovers files based on headers and footers
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23. **Axiom Cyber** - Commercial digital forensics and incident response platform
<https://axiomcyber.com/axiom-cyber/>
24. **Belkasoft Evidence** - Commercial all-in-one forensics solution for Windows, mobile etc
<https://belkasoft.com/evidence>
25. **Fibratus** - Tool to explore and trace Windows kernel activity and data
https://www.jpccert.or.jp/english/pub/sr/ir_research.html
26. **Autopsy Browser** - GUI interface for autopsy digital forensics platform
<https://www.autopsy.com/browser/>
27. **Kali Linux** - Penetration testing Linux distribution with many useful security tools <https://www.kali.org>
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31. **Plaso (log2timeline)** - Extract timestamps from various logs and aggregate timeline <https://plaso.readthedocs.io/en/latest/sources/user/log2timeline.html>
32. **TSK (The Sleuth Kit)** - File system and disk analysis tools originally focussed on NTFS <https://www.sleuthkit.org/sleuthkit/>
33. **Redline** - Host investigations and malware analysis tool by FireEye <https://www.fireeye.com/services/freeware/redline.html>
34. **Snort** - Open source intrusion detection and network monitoring system <https://www.snort.org>
35. **Tcpdump** - Capture and analyze network traffic on Unix-like systems <https://www.tcpdump.org>
36. **Ngrep** - Search within network traffic payloads like grep for text streams <http://ngrep.sourceforge.net/>
37. **dcfldd** - Disk cloning and forensics tool, version of dd with hashing <https://dcfldd.sourceforge.net/>
38. **Wireshark** - Network traffic analyzer useful for network forensics <https://www.wireshark.org>
39. **SIFT (SANS)** - Ubuntu-based distribution for forensic analysis <https://digital-forensics.sans.org/community/downloads>
40. **Paladin** - USB image mounted as virtual drive with write-protection <https://sumuri.com/software/paladin/>
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46. **DC3DD** - Improved version of dd for forensics, handles errors better <https://github.com/Defense-Cyber-Crime-Center/DC3-DD>
47. **Raptor** - Validation tool to verify integrity of forensic copies <http://forensic.rampar.net/>
48. **EnCase Imager** - Disk imaging tool from Guidance Software <https://www.guidancesoftware.com/encase-imager>
49. **Guymager** - Open source disk cloning and imaging tool for Linux <https://guymager.sourceforge.io>
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53. **Foremost** - File carving utility to recover files using header/footer definitions <http://foremost.sourceforge.net>
54. **Hunchback** - High speed packet capture and transmission tool <https://hunchback.sourceforge.net/>
55. **Autopsy Tools** - Plugins and tools used alongside Autopsy forensics GUI <https://www.autopsy.com/extend-autopsy/>
56. **OSForensics Imager** - Hardware write block tool for connecting devices <https://www.osforensics.com/tools/write-blockers.html>
57. **Dislocker** - Decrypts Bitlocker encrypted volumes with mounted filesystem <https://github.com/Aorimn/dislocker>
58. **Bulk Extractor** - Extract forensically interesting information from disk images https://github.com/simsong/bulk_extractor
59. **SANS SIFT** - Ubuntu-derived distro for digital forensic analysis <https://digital-forensics.sans.org/community/downloads>
60. **Live View** - Volatile memory analysis tool for Windows systems <http://liveview.sourceforge.net/>
61. **LRR** - Tool for viewing Windows artifacts including LNK files <https://github.com/EricZimmerman/LinkRunner>
62. **NTFS-3G** - Open source cross-platform NTFS driver with write support <https://www.tuxera.com/community/open-source-ntfs-3g/>
63. **WindowsSCOPE** - Registry analysis tool for dumped SYSTEM/SAM/SECURITY hives <http://www.windowsscope.com/>
64. **Volafax** - Forensic system suited for investigations over remote areas <https://github.com/jipegit/FlaxVolafax>

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65. **Amcache Parser** - Recovers data from Windows 10 Amcache.hve artifact file
https://tzworks.net/prototype_page.php?proto_id=11
66. **The Hive** - Web interface offering querying capabilities for hive files <https://thehive-project.org>
67. **GRR Rapid Response** - Incident response framework focused on remote live forensics
<https://github.com/google/grr>
68. **Rekall** - Advanced forensic memory analysis framework powered by Python <http://www.rekall-forensic.com/>
69. **DFF** - Open source digital forensics framework and platform written in Python
<https://github.com/arxsys/dff>
70. **SSDeep** - Fuzzy hashing tool used for malware clustering and piecewise comparisons <https://ssdeep-project.github.io/ssdeep/index.html>
71. **KAPE** - Target acquisition tool focused on enterprise lines of business <https://www.krollartifactparser.com/>
72. **USB Write Blocker** - Hardware ensuring write protection when imaging USB devices
73. **AIL** - Network and host monitoring system for identification of intrusions <https://www.cert.org/incident-management/products-services/ail.cfm>
74. **Rifiuti2** - Analyzes Windows Recycle Bin INFO2 files and recovers filenames
<https://github.com/abelcheung/rifiuti2>
75. **VolDiff** - Compares memory images and highlights differences for analysis <https://github.com/aim4r/VolDiff>
76. **WinAudit** - Scans Windows systems and reports changes from baseline <http://www.winaudit.com/>
77. **hfind** - Carves unallocated space and extracts hidden/deleted data into files
<https://www.mcafee.com/enterprise/en-us/downloads/free-tools/hfind.html>
78. **Yara** - Pattern matching tool aimed at malware researchers
79. **Checkm8** - Jailbreaking tool extracting data from passcode locked iOS devices <https://checkm8.info/>
80. **Olefile** - Python package for parsing OLE and Office documents <https://github.com/decalage2/olefile>
81. **Pyew** - Python tool for malware analysis static and dynamic <https://github.com/joxeankoret/pyew>
82. **E01 Examiner** - Software utility for mounting EnCase evidence file formats <https://e01examiner.com/>
83. **USBDeview** - Handy Windows tool listing all USB devices ever connected
https://www.nirsoft.net/utils/usb_devices_view.html
84. **Autopsy - iPhone** - Autopsy module adds iOS analysis functionality
<https://sleuthkit.org/autopsy/plugins.php>
85. **DC3-MWCP** - Collection of tools for forensic enterprise analysis from DC3 <https://www.dc3.mil/software-catalog/>
86. **X-Ways Imager** - Disc imaging tool to create forensic images, integrated into X-Ways Forensics
<http://www.x-ways.net/imager/index-m.html>
87. **Memoryze** - Memory acquisition and analysis tool for Windows systems
<https://www.fireeye.com/services/freeware/memoryze.html>
88. **EVTExtract** - Automated parsing modules for Windows event log records
<https://evtextract.readthedocs.io/en/latest/>
89. **Speedit** - Detection and analysis of spyware, keyloggers, trojans etc <https://www.komodia.com/speedit-sdk>
90. **SniffPass** - Sniffs passwords and other sensitive information from a network
<http://www.komodia.com/sniffpass>
91. **Nmap** - Network scanning and host discovery tool helpful for reconnaissance <https://nmap.org/>
92. **OSINT Framework** - Gathering publicly available online data regarding targets <https://osintframework.com/>
93. **Recon-ng** - Web based open source reconnaissance framework <https://github.com/lanmaster53/recon-ng>
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<https://github.com/SharadKumar97/OSINT-SPY>
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96. **Maltego** - Link analysis and data mining for gathering information <https://www.maltego.com/>
97. **SpiderFoot** - OSINT automation tool gathering threat intelligence data <https://www.spiderfoot.net/>
98. **Metagoofil** - Extract metadata of public documents from a target website
<https://github.com/laramies/metagoofil>
99. **TheHarvester** - Gather emails, names, URLs from different public sources
<https://github.com/laramies/theHarvester>
100. **Creepy** - Geolocation OSINT tool to extract target location information from social media profiles
<https://www.geocreepy.com/>

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Here are those same 100 resources, **grouped by function.**

Digital Forensics Frameworks:

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10. **Forensics (DFF)** - Digital forensics framework, an open source platform for investigations

<https://github.com/arxsys/dff>

22. **CAINE** - Italian GNU/Linux live distribution with many forensics tools

<https://www.caine-live.net>

26. **Autopsy Browser** - GUI interface for autopsy digital forensics platform

<https://www.autopsy.com/browser/>

27. **Kali Linux** - Penetration testing Linux distribution with many useful security tools

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28. **DEFT** - Linux distribution configured specifically for computer forensics

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Disk Forensics:

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3. **AccessData (FTK)** - Forensic toolkit computer investigation software by AccessData

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4. **X-Ways Forensics** - Integrated computer forensics software by X-Ways Software Technology

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Memory Forensics:

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68. Rekall - Advanced forensic memory analysis framework powered by Python <http://www.rekall-forensic.com/>

75. VolDiff - Compares memory images and highlights differences for analysis

<https://github.com/aim4r/VolDiff>

87. Memoryze - Memory acquisition and analysis tool for Windows systems

<https://www.fireeye.com/services/freeware/memoryze.html>

Carving Tools:

16. Bulk Extractor - Scans disk images and extract interesting bits of data

https://github.com/simsong/bulk_extractor

18. Scalpel - File carver which recovers files based on headers and footers

<http://www.digitalforensicssolutions.com/Scalpel/>

50. Scalpel - File carver recovering files based on header/footer signatures

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51. Extundelete - Used to recover deleted files from mountable images <http://extundelete.sourceforge.net/>

52. Xplico - Network forensics tool that rebuilds sessions from traffic <http://www.xplico.org/>

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77. hfind - Carves unallocated space and extracts hidden/deleted data into files

<https://www.mcafee.com/enterprise/en-us/downloads/free-tools/hfind.html>

Network Monitoring:

7. Wireshark - Network protocol analyzer useful for network forensics and traffic analysis

<https://www.wireshark.org>

14. NetworkMiner - Open source network forensic analyzer useful for investigating traffic

<http://www.netresec.com/?page=NetworkMiner>

34. Snort - Open source intrusion detection and network monitoring system <https://www.snort.org>

35. Tcpdump - Capture and analyze network traffic on Unix-like systems <https://www.tcpdump.org>

36. Ngrep - Search within network traffic payloads like grep for text streams <http://ngrep.sourceforge.net/>

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54. Hunchback - High speed packet capture and transmission tool <https://hunchback.sourceforge.net/>

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25. Fibratus - Tool to explore and trace Windows kernel activity and data

https://www.jpccert.or.jp/english/pub/sr/ir_research.html

61. LRR - Tool for viewing Windows artifacts including LNK files

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85. DC3-MWCP - Collection of tools for forensic enterprise analysis from DC3 <https://www.dc3.mil/software-catalog/>

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Hex Editors:

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Data Extraction Tools:

8. Cellebrite UFED - Commercial mobile forensic software to extract data from phones and tablets

<https://www.cellebrite.com/en/ufed-ultimate/>

9. Email Collector - Tool to collect and analyze email data during investigations

<https://www.accessdata.com/products-services/e-discovery/email-examination/ftk-email-collector>

11. Magnet AXIOM - Commercial digital investigations platform from Magnet Forensics

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12. Oxygen Detective - Cloud extraction tool for investigations involving cloud services <https://www.oxygen-forensic.com/en/oxygen-detective>

13. OSForensics - Specialized forensics tools for Microsoft systems from PassMark

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24. Belkasoft Evidence - Commercial all-in-one forensics solution for Windows, mobile etc

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21. **PhotoRec** - Recovery tool specifically focused on photos and media files

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Specialized Tools:

17. **Ghiro** - Web site screenshots and analysis for forensic investigations <http://www.getghiro.org/>

81. **Pyew** - Python tool for malware analysis static and dynamic <https://github.com/joxeankoret/pyew>

82. **E01 Examiner** - Software utility for mounting EnCase evidence file formats <https://e01examiner.com/>

86. **X-Ways Imager** - Disc imaging tool to create forensic images, integrated into X-Ways Forensics

<http://www.x-ways.net/imager/index-m.html>

89. **Speedit** - Detection and analysis of spyware, keyloggers, trojans etc <https://www.komodiam.com/speedit-sdk>

90. **SniffPass** - Sniffs passwords and other sensitive information from a network

<http://www.komodiam.com/sniffpass>

OSINT Tools:

91. **Nmap** - Network scanning and host discovery tool helpful for reconnaissance <https://nmap.org/>

92. **OSINT Framework** - Gathering publicly available online data regarding targets

<https://osintframework.com/>

93. **Recon-ng** - Web based open source reconnaissance framework <https://github.com/lanmaster53/recon-ng>

94. **OSINT-SPY** - Performs extensive reconnaissance using 300+ OSINT data sources

<https://github.com/SharadKumar97/OSINT-SPY>

95. **Shodan** - Search engine for Internet connected devices <https://www.shodan.io>

96. **Maltego** - Link analysis and data mining for gathering information <https://www.maltego.com/>

97. **SpiderFoot** - OSINT automation tool gathering threat intelligence data <https://www.spiderfoot.net/>

98. **Metagoofil** - Extract metadata of public documents from a target website

<https://github.com/laramies/metagoofil>

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