Linux 1

```
∨ /home: cat hello.txt                                    ⚲  🗑  ✕

~/workspace$ uname -a
Linux 89f69e841078 6.2.16 #1-NixOS SMP PREEMPT_DYNAMIC Tue Jan  1 00:
00:00 UTC 1980 x86_64 GNU/Linux
~/workspace$ echo TQM
TQM
~/workspace$ PS1='hola mundo $ '
hola mundo $ PS1='\u@\w$ '
runner@~/workspace$ PS1='\[\033[0;32m\]\u\[\033[0m\]@\[\033[0;34m\]\w
\[\033[0m\]: $ '
runner@~/workspace: $ PS1='\mariana@\w$ '
\mariana@~/workspace$ ^C
\mariana@~/workspace$ PS1='mariana@\w$ '
mariana@~/workspace$ PS1='\[\033[0;32m\]\u\[\033[0m\]@\[\033[0;34m\]\
w\[\033[0m\]: $ '
runner@~/workspace: $ PS1='\[\033[1;35m\]\t \d\[\033[0m\] $ '
13:15:49 Mon Oct 06 $ date
Mon Oct  6 01:16:24 PM UTC 2025
13:16:24 Mon Oct 06 $ echo hola
hola
13:16:49 Mon Oct 06 $ echo $PATH
/nix/store/bap4d0lpcrhpwmpb8ayjcgkmvfj62lnq-bash-interactive-5.1-p16/
bin:/nix/store/pr5n59mb4jzmfx6kanwxly0l07p861fg-patchelf-0.15.0/bin:/
nix/store/dq0xwmsk1g0i2ayg6pb7y87na2knzylh-gcc-wrapper-11.3.0/bin:/ni
x/store/1gf2flfqnpqbr1b4p4qz2f72y42bs56r-gcc-11.3.0/bin:/nix/store/57
xv61c5zi8pphjbcwxxjlgc34p61ic9-glibc-2.35-163-bin/bin:/nix/store/a7gv
j343m05j2s32xcnwr35v31ynlypr-coreutils-9.1/bin:/nix/store/1d6ian3r8kd
zspw8hacjhl3xkp40g1lj-binutils-wrapper-2.39/bin:/nix/store/039g378vc3
pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin:/nix/store/p1qrn27c0q3x0338v
y02v67jbc8zk0ar-tree-2.0.4/bin:/nix/store/kblplvpffcfn0zprj80vh41xchj
x4jag-wget-1.21.3/bin:/nix/store/nk3jcpqk04xbil6gk61dck9vcdcabxby-wkh
tmltopdf-bin-0.12.6-3/bin:/nix/store/1a0aw657n2v799swjfjncskjc859g6kk
-imagemagick-7.1.0-52-dev/bin:/nix/store/hl5lsmyf6alwj91nv8kmg2iz1lbn
xym9-curl-7.86.0-dev/bin:/nix/store/39m0xn31z7n44wflfxqq7fbjh1ik6xq7-
brotli-1.0.9/bin:/nix/store/0lm4ygslgn65xi9pkw2kw29qiqqd80hz-libkrb5-
```

```
∨ /home: cat hello.txt                                    ⚲  🗑  ✕

1.20-dev/bin:/nix/store/r7gl900my2fw6k33nxh2r7rzv8nv0s25-libkrb5-1.20
/bin:/nix/store/n8jl8q7kk4a03n4gjiymy4y4hpcp2apm-nghttp2-1.49.0-bin/b
in:/nix/store/hfkdbq95wsm9a0zf2hz51ads25h657hx-libidn2-2.3.2-bin/bin:
/nix/store/fq47cv26nb87hwz2678r6i8ym5b57lwf-openssl-3.0.7-bin/bin:/ni
x/store/mb0pcxkmrg0f6k0zaywlnvpk9q3j5ans-zstd-1.5.2-bin/bin:/nix/stor
e/w10in9diaqrcqqxi5lg20n3q2jfpk6pq-zstd-1.5.2/bin:/nix/store/52fbv6j4
9khca4cfvwm35fqd984w2520-curl-7.86.0-bin/bin:/nix/store/a8mhcagrsly7c
7mpjrpsnaahk4aax056-bzip2-1.0.8-bin/bin:/nix/store/v2lzlm6dkp9f5kjva1
sza5d3hfr2k8jg-freetype-2.12.1-dev/bin:/nix/store/ifswzxzvkxjyv7rq6i1
a90vsw3n6ia1n-libpng-apng-1.6.37-dev/bin:/nix/store/wwqnsjrk9ws6dfp5c
hxb6r3wcawbra1y-libjpeg-turbo-2.1.4-bin/bin:/nix/store/zlcnmqq14jz5x9
439jf937mvayyl63da-xz-5.2.7-bin/bin:/nix/store/3k4dxm0j11b2gr59ws8g5w
r6v75vywml-libtiff-4.4.0-bin/bin:/nix/store/k070xa6nnhv80pal6824n5c0b
0j98zdp-lcms2-2.13.1-bin/bin:/nix/store/km4pzs3hdhch750zh039zmm6w0h4w
y1r-libwebp-1.2.4/bin:/nix/store/8s3ykb2m0z1bbbnc7mk5qawvfx9fzg7g-ima
gemagick-7.1.0-52/bin:/nix/store/px06k8qs2wr0il0v7gh268cc70fqkvwh-tet
ex-3.0/bin:/nix/store/vkqh5k198h9pchijm6ipwm6q7g6sa9n0-q-0.8.2/bin:/n
ix/store/18y8p4mjwjy26npih04hfv48wz9czgk3-attr-2.5.1-bin/bin:/nix/sto
re/q8s1kzhsblr2a1p2g0lh2dkcgca1im3z-libcap-2.66/bin:/nix/store/bvihhg
w8bh6cqqlj0d4s8cvmm4mqmzfc-pulseaudio-16.1/bin:/nix/store/mydc6f4k2z7
3xlcz7ilif3v2lcaiqvza-findutils-4.9.0/bin:/nix/store/j9p3g8472iijd50v
hdprx0nmk2fqn5gv-diffutils-3.8/bin:/nix/store/89zs7rms6x00xfq4dq6m7mj
nhkr8a6r4-gnused-4.8/bin:/nix/store/86bp03jkmsl6f92w0yzg4s59g5mhxwmy-
gnugrep-3.7/bin:/nix/store/hwcdqw4jrjnd37wxqgsd47hd0j8bnj09-gawk-5.1.
1/bin:/nix/store/cfbhw8r8ags41vwqaz47r583d0p4h4a1-gnutar-1.34/bin:/ni
x/store/p3m1ndl1lapwrlh698bnb5lvvxh67378-gzip-1.12/bin:/nix/store/mbl
gz65m3zv9x548a3d5m96fj2pbwr09-gnumake-4.3/bin:/nix/store/dsd5gz46hdbd
k2rfdimqddhq6m8m8fqs-bash-5.1-p16/bin:/nix/store/v7ljksji50mg3w61dyka
a3n3y79n6nil-patch-2.7.6/bin:/nix/store/y6aj732zm9m87c82fpvf103a1xb22
blp-file-5.43/bin:/nix/store/mch289k00aqifa691dahpabjwc0870p1-pid1/bi
n:/nix/store/jqqdy49y3plyk7ccsn08xr88ld3wljdr-replit-runtime-path/bin
:/home/runner/.nix-profile/bin:/home/runner/.local/bin:/usr/local/sbi
n:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
13:17:21 Mon Oct 06 $ which date
```

```
13:17:21 Mon Oct 06 $ which date
/nix/store/a7gvj343m05j2s32xcnwr35v31ynlypr-coreutils-9.1/bin/date
13:17:44 Mon Oct 06 $ pwd
/home/runner/workspace
13:18:28 Mon Oct 06 $ cd /home
13:18:40 Mon Oct 06 $ pwd
/home
13:18:44 Mon Oct 06 $ cd..
bash: cd..: command not found
13:18:55 Mon Oct 06 $ pwd
/home
13:19:02 Mon Oct 06 $ cd ..
13:19:15 Mon Oct 06 $ pwd
/
13:19:19 Mon Oct 06 $ cd ./home
13:19:27 Mon Oct 06 $ pwd
/home
13:19:29 Mon Oct 06 $ cd runner
13:19:37 Mon Oct 06 $ pwd
/home/runner
13:19:38 Mon Oct 06 $ ../../bin/echo hola
hola
13:19:51 Mon Oct 06 $ echo $HOME
/home/runner
13:21:00 Mon Oct 06 $ cd ~
13:21:11 Mon Oct 06 $ pwd
/home/runner
13:21:13 Mon Oct 06 $ ls
workspace
13:21:23 Mon Oct 06 $ cd ..
13:21:29 Mon Oct 06 $ ls
runner
13:21:31 Mon Oct 06 $ cd /
13:21:38 Mon Oct 06 $ ls
```

```
13:19:51 Mon Oct 06 $ echo $HOME
/home/runner
13:21:00 Mon Oct 06 $ cd ~
13:21:11 Mon Oct 06 $ pwd
/home/runner
13:21:13 Mon Oct 06 $ ls
workspace
13:21:23 Mon Oct 06 $ cd ..
13:21:29 Mon Oct 06 $ ls
runner
13:21:31 Mon Oct 06 $ cd /
13:21:38 Mon Oct 06 $ ls
bin    etc    io     media  opt   repl  sbin  sys   var
boot   home   lib    mnt    pid2  root  srv   tmp
dev    inject lib64  nix    proc  run   store usr
13:21:40 Mon Oct 06 $ cd /home
ls -l
total 0
drwxrwxrwx 1 runner runner 46 Oct  6 13:05 runner
13:22:17 Mon Oct 06 $ echo hello > hello.txt
bash: hello.txt: Read-only file system
13:26:34 Mon Oct 06 $ cat hello.txt
cat: hello.txt: No such file or directory
13:26:44 Mon Oct 06 $ ls
runner
13:38:35 Mon Oct 06 $ cd runner
13:38:44 Mon Oct 06 $ cd workspace
13:39:00 Mon Oct 06 $ echo hello > hello.txt
13:39:17 Mon Oct 06 $ cat hello.txt
hello
13:39:26 Mon Oct 06 $ cat < hello.txt > hello2.txt
13:42:14 Mon Oct 06 $ cat hello2.txt
hello
13:42:23 Mon Oct 06 $ 
```

```
13:42:23 Mon Oct 06 $ PS1='\u@\w$ '
runner@~/workspace$ PS1='\[\033[0;32m\]\u\[\033[0m\]@\[\033[0;34m\]\w
\[\033[0m\]: $ '
runner@~/workspace: $ cd /bin
runner@/bin: $ ls -l
total 29948
-rwxr-xr-x 1 root     root       55744 Apr  5  2024  '['
-rwxr-xr-x 1 root     root       14720 Dec  5  2024  addpart
-rwxr-xr-x 1 root     root       18824 Mar 31  2024  apt
-rwxr-xr-x 1 root     root       88544 Mar 31  2024  apt-cache
-rwxr-xr-x 1 root     root       27104 Mar 31  2024  apt-cdrom
-rwxr-xr-x 1 root     root       31120 Mar 31  2024  apt-config
-rwxr-xr-x 1 root     root       51680 Mar 31  2024  apt-get
-rwxr-xr-x 1 root     root       28664 Mar 31  2024  apt-key
-rwxr-xr-x 1 root     root       55776 Mar 31  2024  apt-mark
-rwxr-xr-x 1 root     root       35336 Apr  5  2024  arch
lrwxrwxrwx 1 root     root          21 Apr  8  2024  awk -> /etc/alterna
tives/awk
-rwxr-xr-x 1 root     root       55816 Apr  5  2024  b2sum
-rwxr-xr-x 1 root     root       39432 Apr  5  2024  base32
-rwxr-xr-x 1 root     root       39432 Apr  5  2024  base64
-rwxr-xr-x 1 root     root       35336 Apr  5  2024  basename
-rwxr-xr-x 1 root     root       47624 Apr  5  2024  basenc
-rwxr-xr-x 1 root     root     1446024 Mar 31  2024  bash
-rwxr-xr-x 1 root     root        6988 Mar 31  2024  bashbug
lrwxrwxrwx 1 root     root           3 Apr  8  2024  captoinfo -> tic
-rwxr-xr-x 1 root     root       39384 Apr  5  2024  cat
-rwxr-sr-x 1 root     shadow     72184 May 30  2024  chage
-rwxr-xr-x 1 root     root       14656 Apr 28  2024  chattr
-rwxr-xr-x 1 root     root       59912 Apr  5  2024  chcon
-rwsr-xr-x 1 root     root       72792 May 30  2024  chfn
-rwxr-xr-x 1 root     root       59912 Apr  5  2024  chgrp
-rwxr-xr-x 1 root     root       55816 Apr  5  2024  chmod
-rwxr-xr-x 1 root     root       22912 Dec  5  2024  choom
```

```
-rwxr-xr-x 1 root     root       31008 Jan 28  2025  zdump
-rwxr-xr-x 1 root     root          29 Apr  8  2024  zegrep
-rwxr-xr-x 1 root     root          29 Apr  8  2024  zfgrep
-rwxr-xr-x 1 root     root        2081 Apr  8  2024  zforce
-rwxr-xr-x 1 root     root        8103 Apr  8  2024  zgrep
-rwxr-xr-x 1 root     root       70193 Apr  8 12:47  zipdetails
-rwxr-xr-x 1 root     root        2206 Apr  8  2024  zless
-rwxr-xr-x 1 root     root        1842 Apr  8  2024  zmore
-rwxr-xr-x 1 root     root        4577 Apr  8  2024  znew
runner@/bin: $ ls -l | tail -n1
-rwxr-xr-x 1 root     root        4577 Apr  8  2024  znew
runner@/bin: $ curl --head --silent google.com | grep Length
Content-Length: 219
runner@/bin: $ cd ~/workspace
runner@~/workspace: $ curl -o logo_wikimedia.png https://upload.wikim
edia.org/wikipedia/commons/6/63/Wikipedia-logo.png
  % Total    % Received % Xferd  Average Speed   Time    Time     Tim
e  Current
                                 Dload  Upload   Total   Spent    Lef
t  Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--
100 38692  100 38692    0     0   210k      0 --:--:-- --:--:-- --:--
:--  211k
runner@~/workspace: $ curl -o Calendario-AcadAdm2025.pdf https://www.
javerianacali.edu.co/sites/default/files/2025-05/Calendario-AcadAdm20
25.pdf
  % Total    % Received % Xferd  Average Speed   Time    Time     Tim
e  Current
                                 Dload  Upload   Total   Spent    Lef
t  Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--
100 4485k  100 4485k    0     0  22.8M      0 --:--:-- --:--:-- --:--
:--  22.9M
runner@~/workspace: $ █
```

```
~/workspace/hacker-lab: echo \"Iniciando el escaneo...\" > scan_...  Q  🗑  ✕

runner@~/workspace: $ cd ~/workspace
runner@~/workspace: $ mkdir hacker-lab
cd hacker-lab
runner@~/workspace/hacker-lab: $ touch scanner.sh
runner@~/workspace/hacker-lab: $ code scanner.sh
runner@~/workspace/hacker-lab: $ chmod +x scanner.sh
runner@~/workspace/hacker-lab: $ ./scanner.sh
Iniciando el escaneo...
/etc/login.defs
grep: /etc/shadow-: Permission denied
/etc/default/useradd
/etc/security/pwhistory.conf
grep: /etc/security/opasswd: Permission denied
grep: /etc/gshadow: Permission denied
/etc/debconf.conf
grep: /etc/.pwd.lock: Permission denied
/etc/pam.d/chpasswd
/etc/pam.d/other
/etc/pam.d/newusers
/etc/pam.d/su
/etc/pam.d/su-l
/etc/pam.d/common-password
/etc/pam.d/chsh
/etc/pam.d/login
/etc/pam.d/chfn
/etc/pam.d/passwd
grep: /etc/gshadow-: Permission denied
grep: /etc/shadow: Permission denied
grep: /etc/ssl/private: Permission denied
/etc/ssl/openssl.cnf
grep: /var/cache/ldconfig: Permission denied
grep: /var/cache/apt/archives/lock: Permission denied
grep: /var/cache/apt/archives/partial: Permission denied
grep: /var/cache/debconf/passwords.dat: Permission denied
```

```
~/workspace/hacker-lab: echo \"Iniciando el escaneo...\" > scan_...  Q  🗑  ✕

/var/lib/dpkg/info/fontconfig-config.prerm
/var/lib/dpkg/info/locales.postrm
/var/lib/dpkg/info/ca-certificates.postrm
/var/lib/dpkg/info/libgssapi-krb5-2:amd64.postinst
/var/lib/dpkg/info/xz-utils.prerm
/var/lib/dpkg/info/perl.prerm
/var/lib/dpkg/info/git.preinst
/var/lib/dpkg/info/locales.config
/var/lib/dpkg/info/ca-certificates.config
/var/lib/dpkg/info/perl.postinst
/var/lib/dpkg/info/fontconfig.postinst
/var/lib/dpkg/info/openssl.postinst
/var/lib/dpkg/info/fonts-dejavu-core.postrm
/var/lib/dpkg/info/ca-certificates.postinst
/var/lib/dpkg/info/locales.postinst
/var/lib/dpkg/info/git.prerm
Escaneo completado.
runner@~/workspace/hacker-lab: $ #!/bin/bash

echo "Iniciando el escaneo..." > scan_report.txt

# Busca archivos que contengan la palabra 'password'
grep -rils "password" /etc /var >> scan_report.txt &

# Busca archivos con permisos de ejecución para todos
find /var -type f -perm -111 2>/dev/null >> scan_report.txt &

echo "Escaneo completado. Revisa el archivo scan_report.txt para los
resultados."
[1] 876
[2] 877
Escaneo completado. Revisa el archivo scan_report.txt para los result
ados.
runner@~/workspace/hacker-lab: $ 
```

Files

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📁 hacker-lab > >_ scanner.sh

```bash
#!/bin/bash
# Escaneo de archivos sospechosos en el sistema
echo "Iniciando el escaneo..."
# Busca archivos que contengan la palabra 'password'
grep -ril "password" /etc /var
# Busca archivos con permisos de ejecución para todos
find /var -type f -perm -111 2>/dev/null
echo "Escaneo completado."
```