



Pontificia Universidad
JAVERIANA
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Taller de Introducción a Linux #1

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Aspectos Básicos de la computación

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~/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='\[\033[1;35m\]\t \d\[\033[0m\] $ '
13:14:11 Mon Oct 06 $ PS1='\[\033[1;35m\]\t@\[\033[0;34m\]\w\[\033[0m\]: $ '
13:16:04@~/workspace: $ echo hola
hola
13:16:55@~/workspace: $ echo $PATH
/nix/store/bap4d0lpcrhpwmpb8ayjcgkmvfj62lnq-bash-interactive-5.1-p16/bin:/nix/store/pr5n59mb4jzmf6kanwxly0l07p861fg-patchelf-0.15.0/bin:/nix/store/dq@xwmsk1g0i2ayg6pb7y87na2knzylh-gcc-wrapper-11.3.0/bin:/nix/store/1gf2flfqnpqbr1b4p4qz2f72y42bs56r-gcc-11.3.0/bin:/nix/store/57xv61c5zi8pphjbcbwxxjlgc34p61ic9-glibc-2.35-163-bin/bin:/nix/store/a7gvj343m05j2s32xcnwr35v31ynlypr-coreutils-9.1/bin:/nix/store/1d6ian3r8kdzspw8hacjhl3xkp40g1lj-binutils-wrapper-2.39/bin:/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin:/nix/store/p1qrn27c0q3x0338vy02v67jbc8zk0ar-tree-2.0.4/bin:/nix/store/kblplvpffcf0zprj80vh41xchjx4jag-wget-1.21.3/bin:/nix/store/nk3jcpqk04xbil6gk61dck9vcdcabxby-wkhtmltopdf-bin-0.12.6-3/bin:/nix/store/1a0aw657n2v799swjfnjcskjc859g6kk-imagemagick-7.1.0-52-dev/bin:/nix/store/hl5lsmyf6alwj91nv8kmg2iz1lbnxym9-curl-7.86.0-dev/bin:/nix/store/39m0xn31z7n44wflfxqq7fbjh1ik6xq7-brotli-1.0.9/bin:/nix/store/0lm4ygs1gn65xi9pkw2kw29qiqqd80hz-libkrb5-1.20-dev/bin:/nix/store/r7gl900my2fw6k33nxh2r7rv8nv0s25-libkrb5-1.20/bin:/nix/store/n8jl8q7kk4a03n4gjiymy4y4hpcp2apm-nghttp2-1.49.0-bin/bin:/nix/store/hfkdbq95wsm9a0zf2hz51ads25h657hx-libidn2-2.3.2-bin/bin:/nix/store/fq47cv26nb87hwz2678r6i8ym5b57lwf-openssl-3.0.7-bin/bin:/nix/store/mb0pcxkmrg0f6k0zaywlnvpk9q3j5ans-zstd-1.5.2-bin/bin:/nix/store/w10in9diaqrcqxi5lg20n3q2jfpk6pq-zstd-1.5.2/bin:/nix/store/52fbv6j49khca4cfvwm35fqd984w2520-curl-7.86.0-bin/bin:/nix/store/a8mhcagrsly7c7mpjrpsnaahk4aax056-bzip2-1.0.8-bin/bin:/nix/store/v2lzl6dkp9f5kjva1sza5d3hfr2k8jg-freetype-2.12.1-dev/bin:/nix/store/ifswxzxvkxjyv7rq6i1a90vsw3n6ia1n-libpng-apng-1.6.37-dev/bin:/nix/store/wwqnsjrk9ws6dfp5chxb6r3wcawbra1y-libjpeg-turbo-2.1.4-bin/bin:/nix/store/zlcnmq14jz5x9439jf937mvayyl63da-xz-5.2.7-bin/bin:/nix/store/3k4dxm0j11b2gr59ws8g5wr6v75vywml-libtiff-4.4.0-bin/bin:/nix/store/k070xa6nnhv80pal6824n5c0b0j98zdp-lcms2-2.13.1-bin/bin:/nix/store/km4pzs3hdhch750zh039zmm6w0h4wy1r-libwebp-1.2.4/bin:/nix/store/8s3ykb2m0z1bbnc7mk5qawvfx9fzg7g-imagemagick-7.1.0-52/bin:/nix/store/px06k8qs2wr0il0v7gh268cc70fqkvwh-tetex-3.0/bin:/nix/store/vkqh5k198h9pchi6ipwm6q7g6sa9n0-q-0.8.2/bin:/nix/store/18y8p4mjw26npih04hfv48wz9czgk3-attr-2.5.1-bin/bin:/nix/store/q8s1kzhsblr2a1p2g0lh2dkcgca1im3z-libcap-2.66/bin:/nix/store/bvihhgw8bh6cqqjlj0

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13:17:03@~/workspace: $ which date
/nix/store/a7gvj343m05j2s32xcnwr35v31ynlypr-coreutils-9.1/bin/date
13:17:19@~/workspace: $ pwd
/home/runner/workspace
13:18:01@~/workspace: $ cd /home
13:18:09@/home: $ pwd
/home
13:18:24@/home: $ cd ..
13:18:38@/: $ pwd
/
13:18:42@/: $ cd ./home
13:18:49@/home: $ pwd
/home
13:18:51@/home: $ cd runner
13:19:01@~: $ pwd
/home/runner
13:19:03@~: $ ../../bin/echo hola
hola
13:19:17@~: $ echo $HOME
/home/runner
13:19:34@~: $ cd ~
13:20:32@~: $ pwd
/home/runner
13:20:35@~: $ ls
workspace
13:20:53@~: $ cd ..
13:21:31@/home: $ ls
runner
13:21:39@/home: $ cd /
13:21:50@/: $ 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

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```
13:21:56@/: $ cd /home
ls -l
total 0
drwxrwxrwx 1 runner runner 46 Oct  6 13:07 runner
13:22:16@/home: $ echo hello > hello.txt
bash: hello.txt: Read-only file system
13:22:52@/home: $ cat hello.txt
cat: hello.txt: No such file or directory
13:23:03@/home: $ cd Desktop
bash: cd: Desktop: No such file or directory
13:23:55@/home: $ pwd
/home
13:24:09@/home: $ cd ..
13:24:33@/: $ echo hello > hello.txt
bash: hello.txt: Read-only file system
13:24:52@/: $ cat hello.txt
cat: hello.txt: No such file or directory
13:25:05@/: $ cat < hello.txt > hello2.txt
bash: hello.txt: No such file or directory
13:25:41@/: $ cat hello2.txt
cat: hello2.txt: No such file or directory
13:26:11@/: $ cd runner
bash: cd: runner: No such file or directory
13:27:31@/: $ cd home
13:27:49@/home: $ cd runner
13:28:09@~: $ pwd
/home/runner
13:28:13@~: $ md c.c
bash: md: command not found
13:28:25@~: $ mkdir c.c
13:28:32@~: $ cd c.c
13:28:41@~/c.c: $ echo hello > hello.txt
13:28:50@~/c.c: $ cat hello.txt
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13:28:50~/c.c: $ cat hello.txt
hello
13:28:57~/c.c: $ cat < hello.txt > hello2.txt
13:29:05~/c.c: $ cat < hello.txt > hello2.txt
13:29:12~/c.c: $ cat hello2.txt
hello
13:29:22~/c.c: $ cd /bin
13:29:40/bin: $ cd /bin
13:29:46/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/alternatives/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 captinfo -> 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 chatter
-rwxr-xr-x 1 root root 59912 Apr 5 2024 chcon
-rwsr-xr-x 1 root root 72792 May 30 2024 chfn

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-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
13:29:52@/bin: $ ls -l | tail -n1
-rwxr-xr-x 1 root    root     4577 Apr  8 2024 znew
13:30:01@/bin: $ curl --head --silent google.com | grep Length
Content-Length: 219
13:30:11@/bin: $ cd ~/workspace
13:30:24@~/workspace: $ curl -o logo_wikimedia.png https://upload.wikimedia.org/wikipedia/commons/6/63/Wikipedia-logo.png
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
  0     0    0     0    0     0     0      0  0:00:00  0:00:00  0:00:00  100 3869
2     0    0 241k    0     0     0      0  0:00:00  0:00:00  0:00:00  100 3869
13:30:36@~/workspace: $ curl -o Calendario-AcadAdm2025.pdf https://www.javerianacali.edu.co/sites/default/files/2025-05/Calendario-AcadAdm2025.pdf
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
  0     0    0     0    0     0     0      0  0:00:00  0:00:00  0:00:00  100 4485
k     0    0 30.2M    0     0     0      0  0:00:00  0:00:00  0:00:00  100 4485
13:30:58@~/workspace: $ cd ~/workspace
13:31:31@~/workspace: $ mkdir hacker-lab
cd hacker-lab
13:31:37@~/workspace/hacker-lab: $ touch scanner.sh
13:31:46@~/workspace/hacker-lab: $ code scanner.sh
13:32:15@~/workspace/hacker-lab: $ chmod +x scanner.sh
13:33:02@~/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
```

```
13:33:13@~/workspace/hacker-lab: $ ./scanner.sh
Escaneo completado. Revisa el archivo scan_report.txt para los resultados.
13:34:14@~/workspace/hacker-lab: $ cat scan_report.txt
```

