

# LINUX COMMANDS

Date- Display the current time in the given FORMAT, or set the system date.

```
sysadmin@localhost:~$ date
Wed Dec  1 03:36:23 UTC 2021
```

Whereis- Locate the binary, source, and manual-page files for a command.

```
sysadmin@localhost:~$ whereis -V
whereis from util-linux 2.31.1
```

Touch- Update the access and modification times of each FILE to the current time.

```
sysadmin@localhost:~$ touch Documents
sysadmin@localhost:~$ ls -l Documents
total 1100
drwxr-xr-x 5 sysadmin sysadmin 4096 Feb  8  2021 School
drwxr-xr-x 2 sysadmin sysadmin 4096 Feb  8  2021 Work
-rw-r--r-- 1 sysadmin sysadmin  39 Feb  8  2021 adjectives.txt
-rw-r--r-- 1 sysadmin sysadmin  90 Feb  8  2021 alpha-first.txt
-rw-r--r-- 1 sysadmin sysadmin 106 Feb  8  2021 alpha-second.txt
-rw-r--r-- 1 sysadmin sysadmin 195 Feb  8  2021 alpha-third.txt
-rw-r--r-- 1 sysadmin sysadmin 390 Feb  8  2021 alpha.txt
-rw-r--r-- 1 sysadmin sysadmin  42 Feb  8  2021 animals.txt
-rw-r--r-- 1 sysadmin sysadmin  14 Feb  8  2021 food.txt
-rw-r--r-- 1 sysadmin sysadmin 647 Feb  8  2021 hello.sh
-rw-r--r-- 1 sysadmin sysadmin  67 Feb  8  2021 hidden.txt
-rw-r--r-- 1 sysadmin sysadmin  10 Feb  8  2021 letters.txt
-rw-r--r-- 1 sysadmin sysadmin  83 Feb  8  2021 linux.txt
-rw-r--r-- 1 sysadmin sysadmin 66540 Feb  8  2021 longfile.txt
-rw-r--r-- 1 sysadmin sysadmin  236 Feb  8  2021 newhome.txt
-rw-r--r-- 1 sysadmin sysadmin  10 Feb  8  2021 numbers.txt
-rw-r--r-- 1 sysadmin sysadmin  77 Feb  8  2021 os.csv
-rw-r--r-- 1 sysadmin sysadmin  59 Feb  8  2021 people.csv
```

Glob- They allow you to specify patterns that match filenames in a directory.

Tar- Saves many files together into a single tape or disk archive, and can restore individual files from the archive.

```
sysadmin@localhost:~/Documents$ tar -cf alpha_files.tar alpha*
sysadmin@localhost:~/Documents$ ls -l alpha_files.tar
-rw-rw-r-- 1 sysadmin sysadmin 10240 Oct 31 17:07 alpha_files.tar
```

Gzip- Compress or uncompress files.

```
sysadmin@localhost:~/Documents$ gzip -l longfile.txt.gz
      compressed      uncompressed  ratio uncompressed_name
          341             66540   99.5% longfile.txt
```

Cut- Print selected parts of lines from each file to standard output.

```
sysadmin@localhost:~/Documents$ cut -b1,3 profile.txt
Hl
Ia
32
M
Ih
13
```

Wc- Print newline, word, and byte count for each FILE, and a total line if more than one FILE is specified.

```
sysadmin@localhost:~/Documents$ wc -c animals.txt
42 animals.txt
```

Sh- Turns the terminal into bourne shell.

```
sysadmin@localhost:~/Documents$ sh
$
```

lsusb

```
sysadmin@localhost:~$ sudo apt install isusb
[sudo] password for sysadmin:
Killedg package lists... 67%
```

lspci

```
sysadmin@localhost:~$ sudo apt install lspci
Killedg package lists... 66%
```

lscpu

```
sysadmin@localhost:~$ sudo apt install lscpu
Killedg package lists... 65%
```

Free

```
sysadmin@localhost:~$ free -b
              total          used          free      shared  buff/cache   available
Mem:      67551670272 14071238656 37772025856      22941696 15708405760 53048958976
Swap:      2147479552    134217728    2013261824
```

Top

```
top - 12:37:47 up 29 days, 19:56,  1 user,  load average: 0.32, 0.18, 0.39
Tasks:   8 total,   1 running,  7 sleeping,   0 stopped,   0 zombie
%Cpu(s):  1.1 us,   0.1 sy,   0.0 ni, 98.7 id,   0.1 wa,   0.0 hi,   0.0 si,   0.0 st
KiB Mem : 65968428 total, 36970948 free, 13675544 used, 15321936 buff/cache
KiB Swap: 2097148 total, 1966076 free,  131072 used. 51871900 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	4384	800	736	S	0.0	0.0	0:00.04	init
7	root	20	0	78640	3564	3016	S	0.0	0.0	0:00.01	login
10	syslog	20	0	191332	3264	2768	S	0.0	0.0	0:00.56	rsyslogd
14	root	20	0	28364	2544	2284	S	0.0	0.0	0:00.08	cron
16	root	20	0	72308	3088	2340	S	0.0	0.0	0:00.00	sshd
26	bind	20	0	217056	16076	4924	S	0.0	0.0	0:00.03	named
47	sysadmin	20	0	19224	3980	2780	S	0.0	0.0	0:00.03	bash
85	sysadmin	20	0	38712	3164	2716	R	0.0	0.0	0:00.00	top

## Pstree

```
sysadmin@localhost:~$ pstree -np
init(1)-+-login(7)---bash(47)---pstree(96)
      |-rsyslogd(10)-+-{rsyslogd}(11)
      |               `--{rsyslogd}(13)
      |-cron(14)
      |-sshd(16)
      `--named(26)-+-{named}(27)
                   |-{named}(28)
                   `--{named}(29)
```

## Ssh

```
sysadmin@localhost:~$ ssh -- L
```

## Dig

```
sysadmin@localhost:~$ dig -v
DiG 9.11.3-1ubuntu1.13-Ubuntu
```

## Ss

```
sysadmin@localhost:~$ ss
Netid  State  Recv-Q  Send-Q   Local Address:Port   Peer Address:Port
```

## Netstat

```
sysadmin@localhost:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type        State         I-Node  Path
unix   5      [ ]         DGRAM      0              256676967 /dev/log
unix   2      [ ]         DGRAM      0              256670216
unix   2      [ ]         DGRAM      0              256676996
unix   2      [ ]         DGRAM      0              256677004
```

Ifup/Ifdown

```
sysadmin@localhost:~$ sudo apt install ifup
[sudo] password for sysadmin:
Killedg package lists... 58%
```

Last

```
sysadmin@localhost:~$ last
sysadmin pts/0          Wed Dec  1 04:05      still logged in
sysadmin pts/0          Wed Dec  1 03:42 - 04:05  (00:22)

wtmp begins Wed Dec  1 03:42:21 2021
```

Who

```
sysadmin@localhost:~$ who
sysadmin pts/0          Dec  3 12:08
```

Id

```
sysadmin@localhost:~$ id
uid=1001(sysadmin) gid=1001(sysadmin) groups=1001(sysadmin),4(adm),27(sudo)
```

Umask

```
sysadmin@localhost:~$ umask
0002
```

Chgrp

```
sysadmin@localhost:~/Documents$ sudo chgrp root red.txt
sysadmin@localhost:~/Documents$
```