

## Change file date and Automatically delete previous file

### → Create a empty file and empty directory

```
ubuntu@ip-172-31-35-90:~$ ls
ubuntu@ip-172-31-35-90:~$ touch file1 file2 file3 file4 file5
ubuntu@ip-172-31-35-90:~$ mkdir dir1 dir2 dir3 dir4 dir5
ubuntu@ip-172-31-35-90:~$ ls
dir1 dir2 dir3 dir4 dir5 file1 file2 file3 file4 file5
ubuntu@ip-172-31-35-90:~$
```

### → Check file and directory details

```
ubuntu@ip-172-31-35-90:~$ ls
ubuntu@ip-172-31-35-90:~$ touch file1 file2 file3 file4 file5
ubuntu@ip-172-31-35-90:~$ mkdir dir1 dir2 dir3 dir4 dir5
ubuntu@ip-172-31-35-90:~$ ls
dir1 dir2 dir3 dir4 dir5 file1 file2 file3 file4 file5
ubuntu@ip-172-31-35-90:~$ ls -l
total 20
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir1
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir2
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir3
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir4
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir5
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file1
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file2
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file3
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file4
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file5
ubuntu@ip-172-31-35-90:~$ info touch
```

### → touch command help page

```
ubuntu@ip-172-31-35-90:~$
Prev: chmod invocation, Up: Changing file attributes
13.4 'touch': Change file timestamps
=====
'touch' changes the access and/or modification timestamps of the
specified files.  Synopsis:
    touch [OPTION]... FILE...

Any FILE argument that does not exist is created empty, unless option
'--no-create' ('-c') or '--no-dereference' ('-h') was in effect.

A FILE argument string of '-' is handled specially and causes 'touch'
to change the times of the file associated with standard output.

By default, 'touch' sets file timestamps to the current time.
Because 'touch' acts on its operands left to right, the resulting
timestamps of earlier and later operands may disagree.

When setting file timestamps to the current time, 'touch' can change
the timestamps for files that the user does not own but has write
permission for.  Otherwise, the user must own the files.  Some older
systems have a further restriction: the user must own the files unless
both the access and modification timestamps are being set to the current
time.

The 'touch' command cannot set a file's status change timestamp to a
user-specified value, and cannot change the file's birth time (if
supported) at all.  Also, 'touch' has issues similar to those affecting
all programs that update file timestamps.  For example, 'touch' may set
a file's timestamp to a value that differs slightly from the requested
time.  *Note File timestamps::.

Timestamps assume the time zone rules specified by the 'TZ'
environment variable, or by the system default rules if 'TZ' is not set.
*Note Specifying the Time Zone with 'TZ': (libc)TZ Variable.  You can
avoid ambiguities during daylight saving transitions by using UTC
timestamps.

The program accepts the following options.  Also see *note Common
options::.
'-a'
'--time=atime'
'--time=access'
'--time=use'

Change the access timestamp only.  *Note File timestamps::.
Info: (coreutils)touch invocation, 122 lines, Top
Welcome to Info version 6.7.  Type H for help, h for tutorial.
```

→ ubuntu@ip-172-31-35-90:~\$ touch -am file1

we use this command to change file date and time stamp

```
ubuntu@ip-172-31-35-90: ~
ubuntu@ip-172-31-35-90:~$ ls -l
total 20
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir1
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir2
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir3
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir4
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir5
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file1
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file2
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file3
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file4
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file5
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 10:48 info
ubuntu@ip-172-31-35-90:~$ touch -am file1
ubuntu@ip-172-31-35-90:~$ ls -l
total 20
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir1
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir2
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir3
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir4
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir5
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 10:52 file1
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file2
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file3
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file4
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 09:26 file5
-rw-rw-r-- 1 ubuntu ubuntu 0 May 25 10:48 info
ubuntu@ip-172-31-35-90:~$
```

ubuntu@ip-172-31-35-90:~\$ info stat

```
ubuntu@ip-172-31-35-90: ~
'iso'
List ISO 8601 dates for timestamps, e.g., '2002-03-30'. This
style is equivalent to '+%Y-%m-%d'.

You can specify the default value of the '--time-style' option with
the environment variable 'TIME_STYLE'; if 'TIME_STYLE' is not set
the default style is 'long-iso'. For compatibility with 'ls', if
'TIME_STYLE' begins with '+' and contains a newline, the newline
and any later characters are ignored; if 'TIME_STYLE' begins with
'posix-' the 'posix-' is ignored; and if 'TIME_STYLE' is 'locale'
it is ignored.

'-X FILE'
'--exclude-from=FILE'
Like '--exclude', except take the patterns to exclude from FILE,
one per line. If FILE is '-', take the patterns from standard
input.

'--exclude=PATTERN'
When recursing, skip subdirectories or files matching PATTERN. For
example, 'du --exclude='*.o'' excludes files whose names end in
'.o'.

'-x'
'--one-file-system'
Skip directories that are on different file systems from the one
that the argument being processed is on.

On BSD systems, 'du' reports sizes that are half the correct values
for files that are NFS-mounted from HP-UX systems. On HP-UX systems, it
reports sizes that are twice the correct values for files that are
NFS-mounted from BSD systems. This is due to a flaw in HP-UX; it also
affects the HP-UX 'du' program.

An exit status of zero indicates success, and a nonzero value
indicates failure.

-----Info: (coreutils)du invocation, 274 lines --Bot-----
```

## → change date

```
ubuntu@ip-172-31-35-90:~$ stat file1
  File: file1
  Size: 0                Blocks: 0                IO Block: 4096   regular empty file
Device: ca01h/51713d    Inode: 256135           Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  ubuntu)   Gid: ( 1000/  ubuntu)
Access: 2021-05-25 10:52:46.457043683 +0000
Modify: 2021-05-25 10:52:46.457043683 +0000
Change: 2021-05-25 10:52:46.457043683 +0000
 Birth: -
ubuntu@ip-172-31-35-90:~$ ls -l
total 20
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir1
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir2
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir3
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir4
drwxrwxr-x 2 ubuntu ubuntu 4096 May 25 09:27 dir5
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 10:52 file1
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file2
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file3
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file4
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 09:26 file5
-rw-rw-r-- 1 ubuntu ubuntu  0 May 25 10:48 info
```

```
ubuntu@ip-172-31-35-90:~$ stat file5 file1
  File: file5
  Size: 0                Blocks: 0                IO Block: 4096   regular empty file
Device: ca01h/51713d    Inode: 256202           Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  ubuntu)   Gid: ( 1000/  ubuntu)
Access: 2021-05-25 09:26:58.610013537 +0000
Modify: 2021-05-25 09:26:58.610013537 +0000
Change: 2021-05-25 09:26:58.610013537 +0000
 Birth: -
  File: file1
  Size: 0                Blocks: 0                IO Block: 4096   regular empty file
Device: ca01h/51713d    Inode: 256135           Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  ubuntu)   Gid: ( 1000/  ubuntu)
Access: 2021-05-25 10:52:46.457043683 +0000
Modify: 2021-05-25 10:52:46.457043683 +0000
Change: 2021-05-25 10:52:46.457043683 +0000
 Birth: -
ubuntu@ip-172-31-35-90:~$
```

## → change system date

```
ubuntu@ip-172-31-35-90:~$ date
Tue May 25 15:04:28 UTC 2021
ubuntu@ip-172-31-35-90:~$ sudo date -s "Mon Feb 15 08:59:25 UTC 2021"
Mon Feb 15 08:59:25 UTC 2021
ubuntu@ip-172-31-35-90:~$
```

## → delete older file automatically script:-

```
ubuntu@ip-172-31-35-90:~$ vi Deletetfiles.sh
ubuntu@ip-172-31-35-90:~$
```

```
ubuntu@ip-172-31-35-90: ~
#!/bin/sh/
arg_basedate=$1
arg_basepath=$2

arg_year=`$arg_basedate | cut -c 1-4`
arg_month=`$arg_basedate | cut -c 5-6`

#Calculating year an date of the previous
del_monyh=`expr $arg_month - 1`
if [ $del_month -eq 0 ]
then
del_month=12
del_year=`expr $arg_year -1`
else
del_month=`$del_month`
del_year=`expr $arg_year -1`
fi
del_date=`expr $del_year$del_month01`

for f in $arg_path/*
do
filename=`expr $(basename $f.txt)`
```

```
ubuntu@ip-172-31-35-90: ~
#Calculating year an date of the previous

del_month=`expr $arg_month - 1`

if [ $del_month -eq 0 ]
then
del_month=12
del_year=`expr $arg_year -1`
else
del_month=`$del_month`
del_year=`expr $arg_year -1`
fi
del_date=`expr $del_year$del_month01`

for f in $arg_path/*
do
filename=`expr $(basename $f.txt)`
filedate=`expr $filename | awk -F_ '{print $NF}'`

IF [$filedate -le $del_date ]
then rm -f $f
fi
```



## → extract year and month

```
ubuntu@ip-172-31-35-90:~$ vi Deletfiles.sh
ubuntu@ip-172-31-35-90:~$ echo 20210525 |cut -c 1-4
2021
ubuntu@ip-172-31-35-90:~$ echo 20210525 |cut -c 5-6
05
```

```
ubuntu@ip-172-31-35-90:~$ vi Deletfiles.sh
ubuntu@ip-172-31-35-90:~$ printf "%02d" 3
03ubuntu@ip-172-31-35-90:~$
```

```
CA: ubuntu@ip-172-31-35-90: ~
ubuntu@ip-172-31-35-90:~$ expr "file_2_20210525" | awk -F '{printf $NF}'
Usage: awk [POSIX or GNU style options] -f progfile [--] file ...
Usage: awk [POSIX or GNU style options] [--] 'program' file ...
POSIX options:          GNU long options: (standard)
    -f progfile          --file=progfile
    -F fs                --field-separator=fs
    -v var=val           --assign=var=val
Short options:          GNU long options: (extensions)
    -b                   --characters-as-bytes
    -c                   --traditional
    -C                   --copyright
    -d[file]             --dump-variables[=file]
    -D[file]             --debug[=file]
    -e 'program-text'    --source='program-text'
    -E file              --exec=file
    -g                   --gen-pot
    -h                   --help
    -i includefile       --include=includefile
    -l library           --load=library
    -L[fatal|invalid|no-ext] --lint[=fatal|invalid|no-ext]
    -M                   --bignum
    -N                   --use-lc-numeric
    -n                   --non-decimal-data
    -o[file]            --pretty-print[=file]
    -O                   --optimize
    -p[file]            --profile[=file]
    -P                   --posix
    -r                   --re-interval
    -s                   --no-optimize
    -S                   --sandbox
    -t                   --lint-old
    -V                   --version

To report bugs, see node `Bugs' in `gawk.info'
which is section `Reporting Problems and Bugs' in the
printed version. This same information may be found at
https://www.gnu.org/software/gawk/manual/html\_node/Bugs.html.
PLEASE do NOT try to report bugs by posting in comp.lang.awk,
or by using a web forum such as Stack Overflow.

Examples:
    gawk '{ sum += $1 }; END { print sum }' file
    gawk -F: '{ print $1 }' /etc/passwd
ubuntu@ip-172-31-35-90:~$
```

```
root@ip-172-31-35-90:/files
ubuntu@ip-172-31-35-90:~$ ls
Deletefiles.sh dir1 dir2 dir3 dir4 dir5 file1 file2 file3 file4 file5 info
ubuntu@ip-172-31-35-90:~$ cd file1
-bash: cd: file1: Not a directory
ubuntu@ip-172-31-35-90:~$ cd file1..
-bash: cd: file1..: No such file or directory
ubuntu@ip-172-31-35-90:~$ cd ..
ubuntu@ip-172-31-35-90:/home$ cd ..
ubuntu@ip-172-31-35-90:/# ls
bin dev home lib32 libx32 media opt root sbin srv tmp var
boot etc lib lib64 lost+found mnt proc run snap sys usr
ubuntu@ip-172-31-35-90:/# sudo su
root@ip-172-31-35-90:/# ls
bin dev home lib32 libx32 media opt root sbin srv tmp var
boot etc lib lib64 lost+found mnt proc run snap sys usr
root@ip-172-31-35-90:/# mkdir files
root@ip-172-31-35-90:/# ls
bin dev files lib lib64 lost+found mnt proc run snap sys usr
boot etc home lib32 libx32 media opt root sbin srv tmp var
root@ip-172-31-35-90:/# cd files
root@ip-172-31-35-90:/files# touch file_20210526.txt
root@ip-172-31-35-90:/files# cd ../
root@ip-172-31-35-90:/# ls
bin dev files lib lib64 lost+found mnt proc run snap sys usr
boot etc home lib32 libx32 media opt root sbin srv tmp var
root@ip-172-31-35-90:/# cd files
root@ip-172-31-35-90:/files# ls
file_20210526.txt
root@ip-172-31-35-90:/files# rm -f *.txt
root@ip-172-31-35-90:/files# ls -ltr
total 0
root@ip-172-31-35-90:/files#
```