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# [Linux Find Files By Date And List Files Modified On a Specific Date](https://www.cyberciti.biz/faq/linux-unix-osxfind-files-by-date/)

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How do I find files by date under UNIX and Linux system? How search for files that created on a specific date on Linux or Unix-like system? How to get a list all files that have been modified on a specific date on Linux or Unix?

Linux and UNIX like operating systems do not store file creation time. However, you can use file access and modification time and date to find out file by date. For example, one can list all files that have been modified on a specific date.

Let us see how to find file by date on Linux. You need to use the ls command and find command.

## ls command example to find files by date

The syntax is as follows:

ls -l

ls -lt

ls -ltu

ls -lt /etc/ | more

Sample outputs:

drwxr-xr-x 2 root root 4096 Sep 24 11:42 sysctl.d

drwxr-xr-x 2 root root 4096 Sep 24 11:42 logrotate.d

drwxr-xr-x 2 root root 4096 Sep 24 11:42 init

drwxr-xr-x 2 root root 4096 Sep 24 11:42 init.d

drwxr-xr-x 2 root root 4096 Sep 24 11:42 dnsmasq.d-available

drwxr-xr-x 2 root root 4096 Sep 23 06:22 bash\_completion.d

-rw-r--r-- 1 root root 22667 Sep 22 18:17 ld.so.cache

drwxr-xr-x 9 root root 4096 Sep 22 18:17 apparmor.d

drwxr-xr-x 2 root root 4096 Sep 21 06:21 ssh

drwxr-xr-x 2 root root 4096 Sep 20 05:35 python3.5

-rw-r--r-- 1 root root 3611 Sep 20 05:35 mailcap

drwxr-xr-x 3 root root 4096 Sep 13 12:29 apparmor

drwxr-xr-x 7 root root 4096 Aug 22 21:07 network

-rw-r--r-- 1 root root 929 Aug 22 21:07 resolv.conf

-rw-r--r-- 1 root root 492 Aug 22 21:07 fstab

drwxr-xr-x 2 root root 4096 Aug 22 16:31 cron.hourly

drwxr-xr-x 2 root root 4096 Aug 22 16:29 percona-toolkit

drwxr-xr-x 2 root root 4096 Aug 22 16:29 gdb

drwxr-xr-x 2 root root 4096 Aug 18 21:28 cron.daily

...

..

...

-rw-r--r-- 1 root root 575 Oct 22 2015 profile

-rw-r--r-- 1 root root 10368 Oct 2 2015 sensors3.conf

-rw-r--r-- 1 root root 2188 Aug 31 2015 bash.bashrc

-rw-r--r-- 1 root root 45 Aug 12 2015 bash\_completion

-rw-r--r-- 1 root root 477 Jul 19 2015 zsh\_command\_not\_found

-rw-r--r-- 1 root root 604 Jul 2 2015 deluser.conf

-rw-r--r-- 1 root root 3663 Jun 9 2015 screenrc

-rw-r--r-- 1 root root 703 May 6 2015 logrotate.conf

-rw-r--r-- 1 root root 12 Apr 30 2015 debian\_version

-rw-r--r-- 1 root root 771 Mar 6 2015 insserv.conf

drwxr-xr-x 2 root root 4096 Mar 6 2015 insserv.conf.d

-rw-r--r-- 1 root root 338 Nov 18 2014 updatedb.conf

-rw-r--r-- 1 root root 346 Nov 6 2014 discover-modprobe.conf

-rw-r--r-- 1 root root 2932 Oct 25 2014 protocols

-rw-r--r-- 1 root root 887 Oct 25 2014 rpc

-rw-r--r-- 1 root root 19605 Oct 25 2014 services

-rw-r--r-- 1 root root 280 Jun 20 2014 fuse.conf

-rw-r--r-- 1 root root 497 May 4 2014 nsswitch.conf

You need to use the [grep command](https://www.cyberciti.biz/faq/howto-use-grep-command-in-linux-unix/)/[egrep command](https://www.cyberciti.biz/faq/grep-regular-expressions/) to filter out info:  
$ ls -lt /etc/ | grep filename  
ls -lt /etc/ | grep 'Jun 20'  
A better and recommended solution is the find command:  
find . -type f -ls |grep '2017'  
find . -type f -ls |grep 'filename'  
find /etc/ -type f -ls |grep '25 Sep'

## find Command Example

If you need a specific date range many days ago, than consider using the find command. In this example find files modified between Jan/1/2007 and Jan/1/2008, in /data/images directory:

touch --date "2007-01-01" /tmp/start

touch --date "2008-01-01" /tmp/end

find /data/images -type f -newer /tmp/start -not -newer /tmp/end

You can save list to a text file called output.txt as follows:  
find /data/images -type f -newer /tmp/start -not -newer /tmp/end > output.txt

Comandos usados para encontrar el archivo .log mas recientemente creado:

$ touch --date "2022-04-07" /tmp/start

$ ls -lhtr `find ./ -type f -newer /tmp/start|grep log$`

Con este comando se obtiene cuál es el archivo .log más recientemente creado en un árbol de directorios.

Con fecha 2022-04-07- 23:43, estos comandos generaron el siguiente listado:

-rw-r--r-- 1 usuario usuario 3.1K abr 7 12:29 ./build-binutils/config.log

-rw-r--r-- 1 usuario usuario 90K abr 7 12:30 ./build-binutils/libiberty/config.log

-rw-r--r-- 1 usuario usuario 7.8K abr 7 12:30 ./build-binutils/intl/config.log

-rw-r--r-- 1 usuario usuario 55K abr 7 12:30 ./build-binutils/bfd/config.log

-rw-r--r-- 1 usuario usuario 36K abr 7 12:31 ./build-binutils/opcodes/config.log

-rw-r--r-- 1 usuario usuario 63K abr 7 12:31 ./build-binutils/binutils/config.log

-rw-r--r-- 1 usuario usuario 180 abr 7 12:31 ./build-binutils/etc/config.log

-rw-r--r-- 1 usuario usuario 54K abr 7 12:31 ./build-binutils/gas/config.log

-rw-r--r-- 1 usuario usuario 39K abr 7 12:32 ./build-binutils/gprof/config.log

-rw-r--r-- 1 usuario usuario 60K abr 7 12:32 ./build-binutils/ld/config.log

-rw-r--r-- 1 usuario usuario 68K abr 7 12:32 ./build-glibc-headers/config.log

-rw-r--r-- 1 usuario usuario 31K abr 7 12:33 ./build-gcc-core/libiberty/config.log

-rw-r--r-- 1 usuario usuario 34K abr 7 12:33 ./build-gcc-core/gcc/config.log

-rw-r--r-- 1 usuario usuario 72K abr 7 12:38 ./build-glibc/config.log

-rw-r--r-- 1 usuario usuario 4.9K abr 7 12:45 ./build-gcc/config.log

-rw-r--r-- 1 usuario usuario 48K abr 7 12:45 ./build-gcc/fixincludes/config.log

-rw-r--r-- 1 usuario usuario 121K abr 7 12:45 ./build-gcc/libiberty/config.log

-rw-r--r-- 1 usuario usuario 37K abr 7 12:46 ./build-gcc/intl/config.log

-rw-r--r-- 1 usuario usuario 140K abr 7 12:46 ./build-gcc/gcc/config.log

-rw-r--r-- 1 usuario usuario 122K abr 7 12:46 ./build-gcc/build-x86\_64-host\_unknown-linux-gnu/libiberty/config.log

-rw-r--r-- 1 usuario usuario 46K abr 7 12:47 ./build-gcc/build-x86\_64-host\_unknown-linux-gnu/fixincludes/config.log

-rw-r--r-- 1 usuario usuario 68K abr 7 12:47 ./build-gcc/libcpp/config.log

-rw-r--r-- 1 usuario usuario 133K abr 7 12:57 ./build-gcc/x86\_64-unknown-linux-gnu/libstdc++-v3/config.log

lo cual nos indica que el archivo config.log más recientemente creado en el árbol de directorios

~/Kegel\_crosstool/crosstool-0.43/build/x86\_64-unknown-linux-gnu/gcc-4.1.0-glibc-2.3.6