

FIND COMMAND

What is find command?

The Linux **find command** is one of the most important and frequently used command command-line utility in Unix-like operating systems. The find command is used to search and locate the list of files and directories based on conditions you specify for files that match the arguments.

find command can be used in a variety of conditions find files **permissions, users, groups, file types, date, size**, and other possible criteria.

Find syntax

Find <path> <search criteria> <action>

Find all the files

```
[root@vivek ~]# find
```

Find Files Using Name in Current Directory

```
[root@vivek home]# find . -name pooja*
./pooja
```

Find files under home directory

```
[root@vivek /]# find /home -name vgandhi
/home/vgandhi
```

Find files using name and ignoring case

```
[root@vivek /]# find /home -name vgandhi
/home/vgandhi
[root@vivek /]# find /home -iname VGANDHI
/home/vgandhi
```

Find directory using name

```
[root@vivek ~]# find / -type d -name vivek
/root/vivek
```

Find files with 777 permissions

```
-rwxrwxrwx. 1 root root 1387 Jan 20 06:45 anaconda-ks.cfg
-rw-r--r--. 1 root root 1542 Jan 20 06:48 initial-setup-ks.cfg
drwxrwxrwx. 2 root root    6 Feb 20 05:22 vivek
[root@vivek ~]# find . -type f -perm 0777
./anaconda-ks.cfg
```

Find files without 777 permissions

```
[root@vivek ~]# find . -type f ! -perm 777
./.bash_logout
./.bash_profile
./.bashrc
```

Find all hidden files

```
[root@vivek ~]# find /tmp -type f -name ".*"
/tmp/.X1024-lock
```

FIND COMMAND

Find all files based on user

```
[root@vivek ~]# find /home -user root
/home
/home/vgandhi
```

Find single file based on user

```
[root@vivek ~]# find / -user root -name vivek
/root/vivek
```

Find all files based on group

```
[root@vivek ~]# find /home -group vgandhi
/home/vgandhi/.mozilla
/home/vgandhi/.mozilla/extensions
/home/vgandhi/.mozilla/plugins
/home/vgandhi/.bash_logout
/home/vgandhi/.bash_profile
/home/vgandhi/.bashrc
/home/vgandhi/.config
/home/vgandhi/.config/pulse
```

Find 50 days modified files

```
[root@vivek ~]# find . -mtime +50
./bash_logout
./bash_profile
./bashrc
./cshrc
./tcshrc
[root@vivek ~]#
```

Find last 50 days accessed files

```
[root@vivek ~]# find . -atime +50
./cshrc
./tcshrc
```

Find changed files in last 1 hours

```
[root@vivek ~]# find . -cmin -60
.
./anaconda-ks.cfg
./config/pulse/644b6001247e43f2b7a8730caf44a407-device-volumes.tdb
./config/pulse/644b6001247e43f2b7a8730caf44a407-default-sink
./config/pulse/644b6001247e43f2b7a8730caf44a407-default-source
./bash_history
./vivek
./1
```

Find modified files in last 1 hours

```
[root@vivek ~]# find . -mmin -60
.
./vivek
./1
```

FIND COMMAND

Find last 50 min accessed files

```
[root@vivek ~]# find . -amin -50
.
./vivek
./1
```

Find 100 kb files

```
root ~
[root@vivek ~]# ll
total 108
-rw-r--r--. 1 root root 102400 Feb 20 06:15 1
-rw-----. 1 root root 1387 Jan 20 06:45 anaconda-ks.cfg
-rw-r--r--. 1 root root 1542 Jan 20 06:48 initial-setup-ks.cfg
drwxrwxrwx. 2 root root 6 Feb 20 05:22 vivek
[root@vivek ~]# find . -size 100k
./1
```

Find and delete 100kb files

```
[root@vivek ~]# ll
total 102408
-rw-r--r--. 1 root root 104857600 Feb 20 00:51 1
-rw-----. 1 root root 1387 Jan 20 06:45 anaconda-ks.cfg
-rw-r--r--. 1 root root 1542 Jan 20 06:48 initial-setup-ks.cfg
[root@vivek ~]# find . -type f -size +100k -exec rm -f {} \;
[root@vivek ~]# ll
total 8
-rw-----. 1 root root 1387 Jan 20 06:45 anaconda-ks.cfg
-rw-r--r--. 1 root root 1542 Jan 20 06:48 initial-setup-ks.cfg
[root@vivek ~]#
```

Find specific files delete

```
[root@vivek ~]# ll
total 204808
-rw-r--r--. 1 root root 104857600 Feb 20 00:58 1
-rw-r--r--. 1 root root 104857600 Feb 20 00:59 1.txt
-rw-----. 1 root root 1387 Jan 20 06:45 anaconda-ks.cfg
-rw-r--r--. 1 root root 1542 Jan 20 06:48 initial-setup-ks.cfg
[root@vivek ~]# find . -type f -name *.txt -size +100k -exec rm {} \;
[root@vivek ~]# ll
total 102408
-rw-r--r--. 1 root root 104857600 Feb 20 00:58 1
-rw-----. 1 root root 1387 Jan 20 06:45 anaconda-ks.cfg
-rw-r--r--. 1 root root 1542 Jan 20 06:48 initial-setup-ks.cfg
[root@vivek ~]#
```