

Here's the command I wrote to move all the files in the `/root` directory that contain the word "log" into a folder in your home directory called: ~/logs/ :

```
vboxuser@RSDev:~$ pwd
/home/vboxuser
vboxuser@RSDev:~$ mkdir -p ~/logs
vboxuser@RSDev:~$ ls~
Command 'ls~' not found, did you mean:
  command 'lsd' from snap lsd (0.16.0)
  command 'lsm' from deb lsm (1.0.4-2)
  command 'ls' from deb coreutils (8.32-4.1ubuntu1.2)
  command 'lsh' from deb lsh-client (2.1-13)
  command 'lsc' from deb livescript (1.6.1+dfsg-2)
  command 'lsw' from deb suckless-tools (46-1)
See 'snap info <snapname>' for additional versions.
vboxuser@RSDev:~$ ls ~
Arduino  Documents  logs      Pictures  ros2_ws   Templates
Desktop  Downloads  Music     Public    snap      Videos
vboxuser@RSDev:~$ sudo touch /root/systemlog.txt /root/errorlog
/root/log_backup.txt /root/notes.txt
[sudo] password for vboxuser:
vboxuser@RSDev:~$ sudo ls /root
errorlog  log_backup.txt  notes.txt  snap  systemlog.txt
vboxpostinstall.sh
vboxuser@RSDev:~$ errorlog log_backup.txt notes.txt systemlog.txt
errorlog: command not found
vboxuser@RSDev:~$ sudo ls /root
errorlog  log_backup.txt  notes.txt  snap  systemlog.txt
vboxpostinstall.sh
vboxuser@RSDev:~$ sudo mv /root/*log* ~/logs/
mv: cannot stat '/root/*log*': No such file or directory
vboxuser@RSDev:~$ ls ~/logs
vboxuser@RSDev:~$ sudo ls /root
errorlog  log_backup.txt  notes.txt  snap  systemlog.txt
vboxpostinstall.sh
vboxuser@RSDev:~$ sudo ls -l /root
total 12
-rw-r--r-- 1 root root    0 Oct 16 19:14 errorlog
-rw-r--r-- 1 root root    0 Oct 16 19:14 log_backup.txt
```

```
-rw-r--r-- 1 root root    0 Oct 16 19:14 notes.txt
drwx----- 7 root root 4096 Aug 20 23:31 snap
-rw-r--r-- 1 root root    0 Oct 16 19:14 systemlog.txt
-r-xr-xr-x 1 root root 7948 Aug 20 16:11 vboxpostinstall.sh
vboxuser@RSDev:~$ sudo bash -c "ls /root/*log*"
/root/errorlog /root/log_backup.txt /root/systemlog.txt
vboxuser@RSDev:~$ sudo bash -c "mv /root/*log* /home/vboxuser/logs/"
vboxuser@RSDev:~$ ls ~/logs
errorlog log_backup.txt systemlog.txt
vboxuser@RSDev:~$ sudo ls /root
notes.txt snap vboxpostinstall.sh
vboxuser@RSDev:~$
```

So what I did is that:

1) I first went to the home and try to confirm that I am in the home directory!

2) Then I made a directory by '**mkdir**'

-p = created parent directories if needed

~/logs = named logs inside my home directory

3) Then I wrote: `ls ~` to see if the logs exist. Here's what I see:

```
Arduino Documents logs Pictures ros2_ws Templates
Desktop Downloads Music Public snap Videos
```

So it does exist!

4) Now to access the root server I wrote:

```
sudo ls /root
```

And gave my password. I found this:

notes.txt snap [vboxpostinstall.sh](#)

5) Then I moved the only files containing 'log' . Now to move all files that **contain "log"** in their names from /root → ~/logs I wrote:

```
sudo mv /root/*log* ~/logs/
```

What it does is :

sudo → gain root permission temporarily

mv → move command

/root/*log* → selects all filenames in /root that contain "log"

~/logs/ → your target folder inside home

6)

```
$ sudo ls -l /root
```

I wrote this to see if the contains any specific files. So I found this:

```
Total 12
-rw-r--r-- 1 root root    0 Oct 16 19:14 errorlog
-rw-r--r-- 1 root root    0 Oct 16 19:14 log_backup.txt
-rw-r--r-- 1 root root    0 Oct 16 19:14 notes.txt
drwx----- 7 root root 4096 Aug 20 23:31 snap
-rw-r--r-- 1 root root    0 Oct 16 19:14 systemlog.txt
-r-xr-xr-x 1 root root 7948 Aug 20 16:11 vboxpostinstall.sh
```

7) Then I wrote this to check if it's ok :

```
ls ~/logs
errorlog  log_backup.txt  systemlog.txt
vboxuser@RSDev:~$ sudo ls /root
notes.txt  snap  vboxpostinstall.sh
```

So I created test files in /root:

- Confirmed they were there using `sudo ls -l /root`.

Also verified the wildcard expansion:

- `sudo bash -c "ls /root/*log*" correctly listed your log files.`

And moved them successfully with full permissions:

- `sudo bash -c "mv /root/*log* /home/vboxuser/logs/"` worked because:
 - 1) Wildcards were expanded *inside* the root shell.
 - 2) The move had full root permission.

Finally confirmed the results:

- 1) `~/logs` now contains: `errorlog`, `log_backup.txt`, and `systemlog.txt`
- 2) `/root` only has: `notes.txt`, `snap`, `vboxpostinstall.sh`