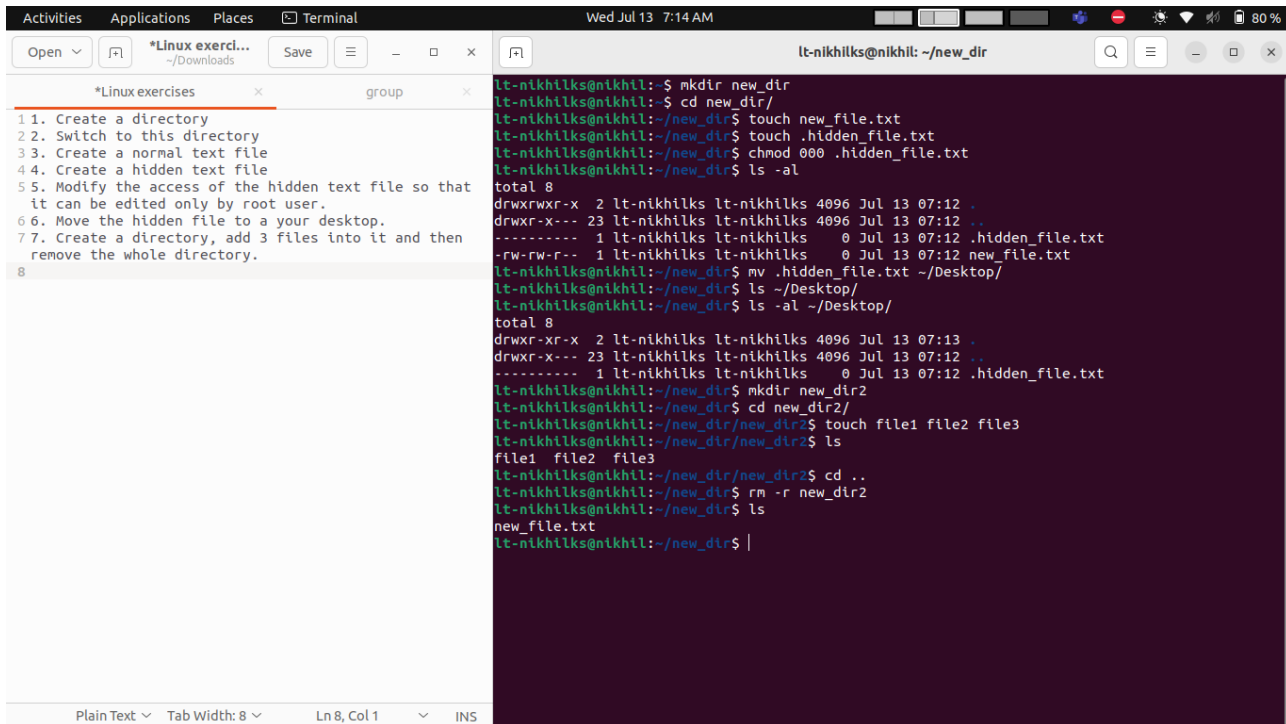
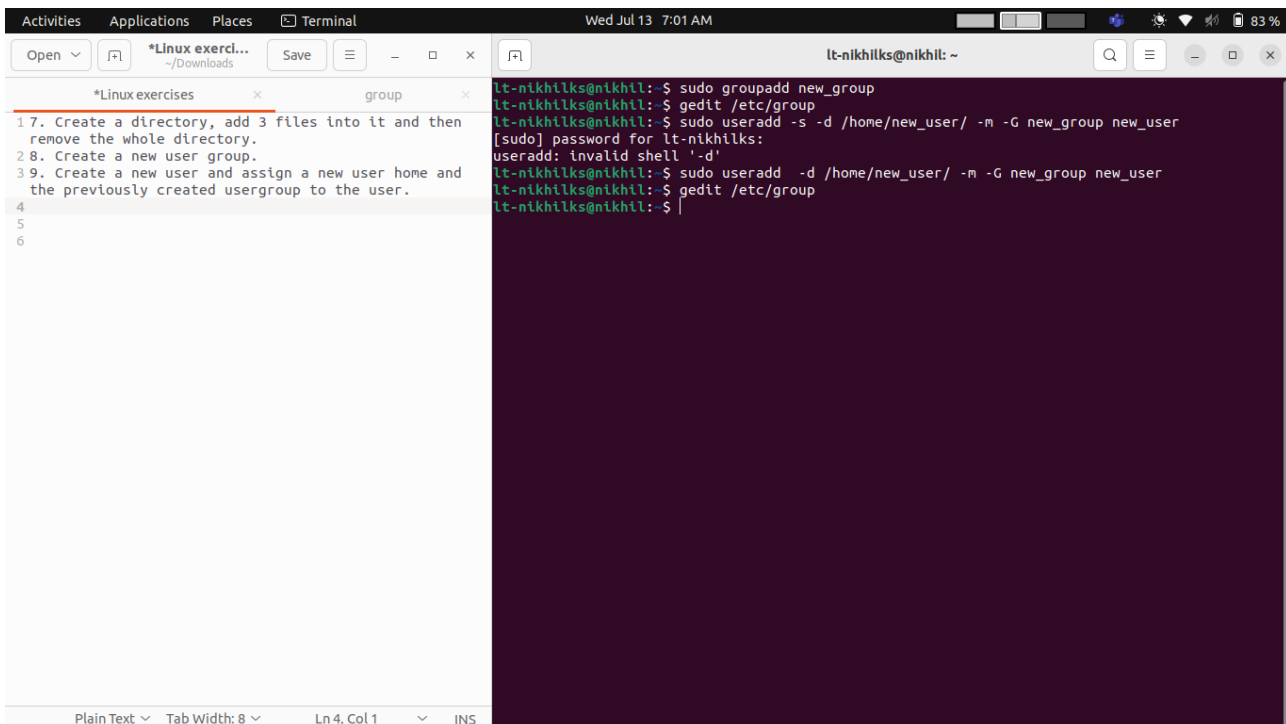


Answers 1, 2, 3, 4, 5, 6, 7:



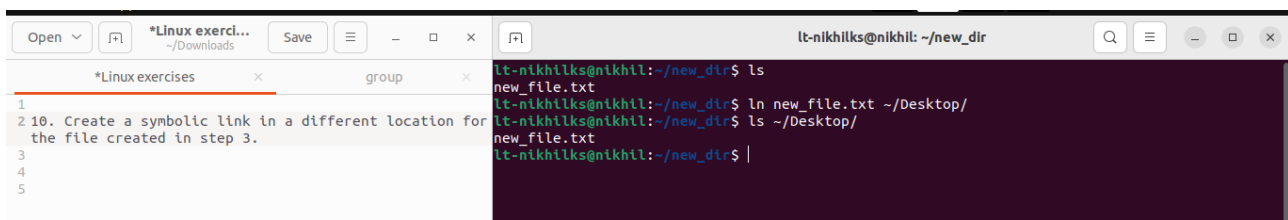
```
lt-nikhilks@nikhil:~$ mkdir new_dir
lt-nikhilks@nikhil:~$ cd new_dir/
lt-nikhilks@nikhil:~/new_dir$ touch new_file.txt
lt-nikhilks@nikhil:~/new_dir$ touch .hidden_file.txt
lt-nikhilks@nikhil:~/new_dir$ chmod 000 .hidden_file.txt
lt-nikhilks@nikhil:~/new_dir$ ls -al
total 8
drwxrwxr-x 2 lt-nikhilks lt-nikhilks 4096 Jul 13 07:12 .
drwxr-x--- 23 lt-nikhilks lt-nikhilks 4096 Jul 13 07:12 ..
----- 1 lt-nikhilks lt-nikhilks 0 Jul 13 07:12 .hidden_file.txt
-rw-rw-r-- 1 lt-nikhilks lt-nikhilks 0 Jul 13 07:12 new_file.txt
lt-nikhilks@nikhil:~/new_dir$ mv .hidden_file.txt ~/Desktop/
lt-nikhilks@nikhil:~/new_dir$ ls ~/Desktop/
lt-nikhilks@nikhil:~/new_dir$ ls -al ~/Desktop/
total 8
drwxr-xr-x 2 lt-nikhilks lt-nikhilks 4096 Jul 13 07:13 .
drwxr-x--- 23 lt-nikhilks lt-nikhilks 4096 Jul 13 07:12 ..
----- 1 lt-nikhilks lt-nikhilks 0 Jul 13 07:12 .hidden_file.txt
lt-nikhilks@nikhil:~/new_dir$ mkdir new_dir2
lt-nikhilks@nikhil:~/new_dir$ cd new_dir2/
lt-nikhilks@nikhil:~/new_dir/new_dir2$ touch file1 file2 file3
lt-nikhilks@nikhil:~/new_dir/new_dir2$ ls
file1 file2 file3
lt-nikhilks@nikhil:~/new_dir/new_dir2$ cd ..
lt-nikhilks@nikhil:~/new_dir$ rm -r new_dir2
lt-nikhilks@nikhil:~/new_dir$ ls
new_file.txt
lt-nikhilks@nikhil:~/new_dir$ |
```

Q 7, 8, 9



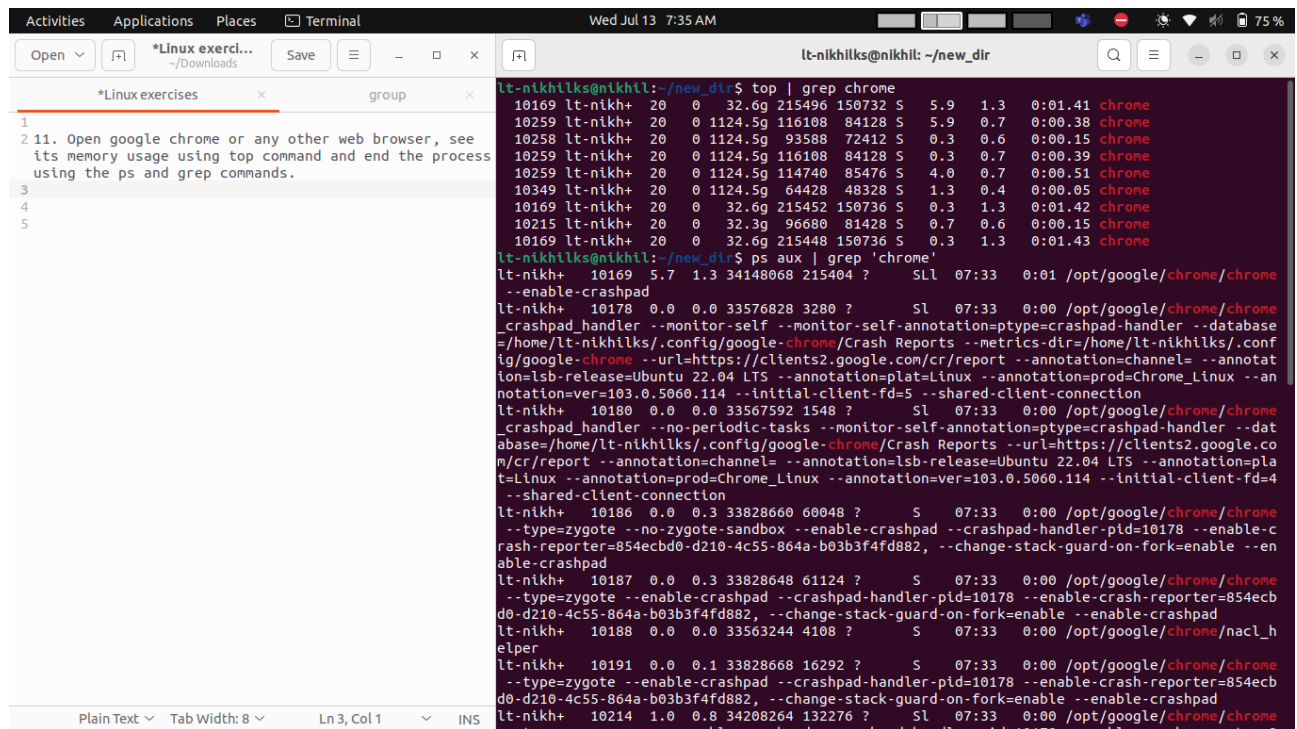
```
lt-nikhilks@nikhil:~$ sudo groupadd new_group
lt-nikhilks@nikhil:~$ gedit /etc/group
lt-nikhilks@nikhil:~$ sudo useradd -s -d /home/new_user/ -m -G new_group new_user
[sudo] password for lt-nikhilks:
useradd: invalid shell '-d'
lt-nikhilks@nikhil:~$ sudo useradd -d /home/new_user/ -m -G new_group new_user
lt-nikhilks@nikhil:~$ gedit /etc/group
lt-nikhilks@nikhil:~$ |
```

Q 10:



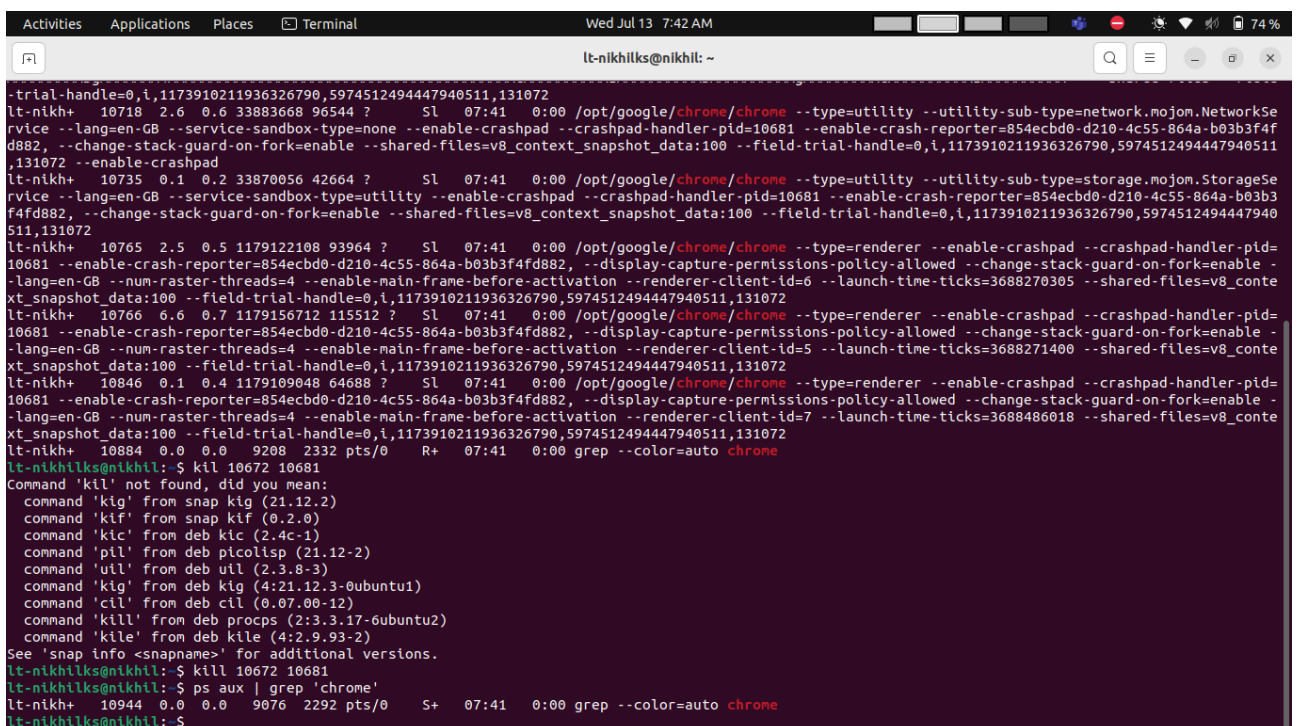
```
lt-nikhil@nikhil: ~/new_dir$ ls
new_file.txt
lt-nikhil@nikhil:~/new_dir$ ln new_file.txt ~/Desktop/
lt-nikhil@nikhil:~/new_dir$ ls ~/Desktop/
new_file.txt
lt-nikhil@nikhil:~/new_dir$ |
```

Q 11:



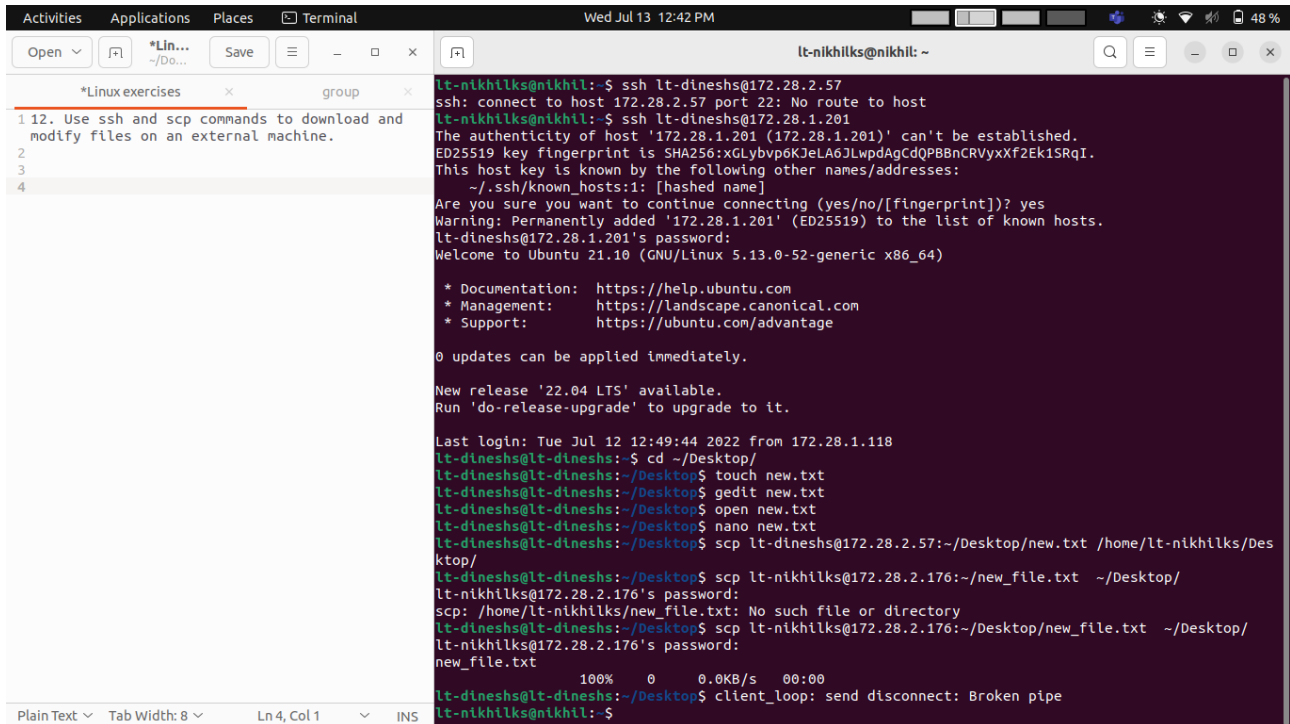
```
lt-nikhil@nikhil:~/new_dir$ top | grep chrome
10169 lt-nikh+ 20 0 32.6g 215496 150732 S 5.9 1.3 0:01.41 chrome
10259 lt-nikh+ 20 0 1124.5g 116108 84128 S 5.9 0.7 0:00.38 chrome
10258 lt-nikh+ 20 0 1124.5g 93588 72412 S 0.3 0.6 0:00.15 chrome
10259 lt-nikh+ 20 0 1124.5g 116108 84128 S 0.3 0.7 0:00.39 chrome
10259 lt-nikh+ 20 0 1124.5g 114740 85476 S 4.0 0.7 0:00.51 chrome
10349 lt-nikh+ 20 0 1124.5g 64428 48328 S 1.3 0.4 0:00.05 chrome
10169 lt-nikh+ 20 0 32.6g 215452 150736 S 0.3 1.3 0:01.42 chrome
10215 lt-nikh+ 20 0 32.3g 96680 81428 S 0.7 0.6 0:00.15 chrome
10169 lt-nikh+ 20 0 32.6g 215448 150736 S 0.3 1.3 0:01.43 chrome

lt-nikhil@nikhil:~/new_dir$ ps aux | grep 'chrome'
lt-nikh+ 10169 5.7 1.3 34148068 215404 ? Sll 07:33 0:01 /opt/google/chrome/chrome
--enable-crashpad
lt-nikh+ 10178 0.0 0.0 33576828 3280 ? Sl 07:33 0:00 /opt/google/chrome/chrome
_crashpad_handler --monitor-self --monitor-self-annotation=ptype=crashpad-handler --database
=/home/lt-nikhil/.config/google-chrome/Crash Reports --metrics-dir=/home/lt-nikhil/.conf
ig/google-chrome --url=https://clients2.google.com/cr/report --annotation=channel= --annotat
ion=lsb-release=Ubuntu 22.04 LTS --annotation=plat=Linux --annotation=prod=Chrome_Linux --an
notation=ver=103.0.5060.114 --initial-client-fd=5 --shared-client-connection
lt-nikh+ 10180 0.0 0.0 33567592 1548 ? Sl 07:33 0:00 /opt/google/chrome/chrome
_crashpad_handler --no-periodic-tasks --monitor-self-annotation=ptype=crashpad-handler --dat
abase=/home/lt-nikhil/.config/google-chrome/Crash Reports --url=https://clients2.google.co
m/cr/report --annotation=channel= --annotation=lsb-release=Ubuntu 22.04 LTS --annotation=pla
t=Linux --annotation=prod=Chrome_Linux --annotation=ver=103.0.5060.114 --initial-client-fd=4
--shared-client-connection
lt-nikh+ 10186 0.0 0.3 33828660 60048 ? S 07:33 0:00 /opt/google/chrome/chrome
--type=zygote --no-zygote-sandbox --enable-crashpad --crashpad-handler-pid=10178 --enable-c
rash-reporter=854ecbd0-d210-4c55-864a-b03b3f4fd882, --change-stack-guard-on-fork=enable --en
able-crashpad
lt-nikh+ 10187 0.0 0.3 33828648 61124 ? S 07:33 0:00 /opt/google/chrome/chrome
--type=zygote --enable-crashpad --crashpad-handler-pid=10178 --enable-crash-reporter=854ecb
d0-d210-4c55-864a-b03b3f4fd882, --change-stack-guard-on-fork=enable --enable-crashpad
lt-nikh+ 10188 0.0 0.0 33563244 4108 ? S 07:33 0:00 /opt/google/chrome/nacl_h
elper
lt-nikh+ 10191 0.0 0.1 33828668 16292 ? S 07:33 0:00 /opt/google/chrome/chrome
--type=zygote --enable-crashpad --crashpad-handler-pid=10178 --enable-crash-reporter=854ecb
d0-d210-4c55-864a-b03b3f4fd882, --change-stack-guard-on-fork=enable --enable-crashpad
lt-nikh+ 10214 1.0 0.8 34208264 132276 ? Sl 07:33 0:00 /opt/google/chrome/chrome
```



```
lt-nikhil@nikhil: ~$ kill 10672 10681
Command 'kill' not found, did you mean:
command 'kig' from snap kig (21.12.2)
command 'kif' from snap kif (0.2.0)
command 'kic' from deb kic (2.4c-1)
command 'pil' from deb picolisp (21.12-2)
command 'uil' from deb uil (2.3.8-3)
command 'kig' from deb kig (4:21.12.3-0ubuntu1)
command 'cil' from deb cil (0.07.00-12)
command 'kill' from deb procps (2:3.3.17-6ubuntu2)
command 'kile' from deb kile (4:2.9.93-2)
See 'snap info <snapname>' for additional versions.
lt-nikhil@nikhil:~$ ps aux | grep 'chrome'
lt-nikh+ 10944 0.0 0.0 9076 2292 pts/0 S+ 07:41 0:00 grep --color=auto chrome
lt-nikhil@nikhil:~$
```

Q 12.



```
lt-nikhilks@nikhil: ~  
lt-nikhilks@nikhil:~$ ssh lt-dineshs@172.28.2.57  
ssh: connect to host 172.28.2.57 port 22: No route to host  
lt-nikhilks@nikhil:~$ ssh lt-dineshs@172.28.1.201  
The authenticity of host '172.28.1.201 (172.28.1.201)' can't be established.  
ED25519 key fingerprint is SHA256:xGLybvvp6KJeLA6JLwPdAgCdQPBBnCRVyxXf2Ek1SRqI.  
This host key is known by the following other names/addresses:  
  ~/.ssh/known_hosts:1: [hashed name]  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '172.28.1.201' (ED25519) to the list of known hosts.  
lt-dineshs@172.28.1.201's password:  
Welcome to Ubuntu 21.10 (GNU/Linux 5.13.0-52-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
0 updates can be applied immediately.  
  
New release '22.04 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
Last login: Tue Jul 12 12:49:44 2022 from 172.28.1.118  
lt-dineshs@lt-dineshs:~$ cd ~/Desktop/  
lt-dineshs@lt-dineshs:~/Desktop$ touch new.txt  
lt-dineshs@lt-dineshs:~/Desktop$ gedit new.txt  
lt-dineshs@lt-dineshs:~/Desktop$ open new.txt  
lt-dineshs@lt-dineshs:~/Desktop$ nano new.txt  
lt-dineshs@lt-dineshs:~/Desktop$ scp lt-dineshs@172.28.2.57:~/Desktop/new.txt /home/lt-nikhilks/Desktop/  
lt-dineshs@lt-dineshs:~/Desktop$ scp lt-nikhilks@172.28.2.176:~/new_file.txt ~/Desktop/  
lt-nikhilks@172.28.2.176's password:  
scp: /home/lt-nikhilks/new_file.txt: No such file or directory  
lt-dineshs@lt-dineshs:~/Desktop$ scp lt-nikhilks@172.28.2.176:~/Desktop/new_file.txt ~/Desktop/  
lt-nikhilks@172.28.2.176's password:  
new_file.txt  
100% 0 0.0KB/s 00:00  
lt-dineshs@lt-dineshs:~/Desktop$ client_loop: send disconnect: Broken pipe  
lt-nikhilks@nikhil:~$
```