LINUX COMMANDS-III

mahipal@Mahipal:~$ su - root

Password:

Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 4.4.0-19041-Microsoft x86_64)

 * Documentation: https://help.ubuntu.com

 * Management: https://landscape.canonical.com

 * Support: https://ubuntu.com/advantage

 System information as of Sat Jul 23 19:20:05 IST 2022

  System load: 0.52   Processes: 14

  Usage of /home: unknown   Users logged in: 0

  Memory usage: 71%   IPv4 address for eth2: 192.168.56.1

  Swap usage: 1%   IPv4 address for wifi0: 192.168.0.187

0 updates can be applied immediately.

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

This message is shown once a day. To disable it please create the

/root/.hushlogin file.

root@Mahipal:~#

root@Mahipal:~#

root@Mahipal:~#

root@Mahipal:~#

root@Mahipal:~# pwd

/root

root@Mahipal:~# ls

''$'\032'   nohup.out

 SWs   pass.txt

 backup.sh   test.sql

 basic_passwords.txt   training

 kill_slow_log.sh   vulnerabilities.csv

 kill_slow_log_2.sh   y

root@Mahipal:~#

root@Mahipal:~#

root@Mahipal:~# mkdir mytraining

root@Mahipal:~# ls

''$'\032'   nohup.out

 SWs   pass.txt

 backup.sh   test.sql

 basic_passwords.txt   training

 kill_slow_log.sh   vulnerabilities.csv

 kill_slow_log_2.sh   y

 mytraining

root@Mahipal:~# cd mytraining

root@Mahipal:~/mytraining# pwd

```
/root/mytraining

root@Mahipal:~/mytraining# cd ..

root@Mahipal:~# pwd

/root

root@Mahipal:~# cd -

/root/mytraining

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# cd ~

root@Mahipal:~#

root@Mahipal:~# pwd

/root

root@Mahipal:~# cd -

/root/mytraining

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# pwd

/root/mytraining

root@Mahipal:~/mytraining# cd /

root@Mahipal:/# pwd

/

root@Mahipal:/# ls

bin  etc  lib  libx32  opt  run  srv  usr

boot  home  lib32  media  proc  sbin  sys  var

dev  init  lib64  mnt    root  snap  tmp

root@Mahipal:/# pwd
```

```
/

root@Mahipal:/# pwd

/

root@Mahipal:/# cd ~

root@Mahipal:~# pwd

/root

root@Mahipal:~# ls

''$'\032'          nohup.out

 SWs              pass.txt

 backup.sh           test.sql

 basic_passwords.txt   training

 kill_slow_log.sh      vulnerabilities.csv

 kill_slow_log_2.sh    y

 mytraining

root@Mahipal:~# cd mytraining

root@Mahipal:~/mytraining# ls

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# pwd

/root/mytraining

root@Mahipal:~/mytraining# vi test.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls

test.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#
```

```
root@Mahipal:~/mytraining# vi test.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls

test.txt

root@Mahipal:~/mytraining# cp test.txt test_2.txt

root@Mahipal:~/mytraining# ls

test.txt  test_2.txt

root@Mahipal:~/mytraining# mv test_2.txt test_3.tx

root@Mahipal:~/mytraining# ls

test.txt  test_3.tx

root@Mahipal:~/mytraining# ls

test.txt  test_3.tx

root@Mahipal:~/mytraining# mkdir test123

root@Mahipal:~/mytraining# ls

test.txt  test123  test_3.tx

root@Mahipal:~/mytraining# rmdir test123

root@Mahipal:~/mytraining# ls

test.txt  test_3.tx

root@Mahipal:~/mytraining# cd /

root@Mahipal:/# ls

bin   etc   lib   libx32  opt   run   srv  usr

boot  home  lib32  media   proc  sbin  sys  var

dev   init  lib64  mnt     root  snap  tmp

root@Mahipal:/# cd ~

root@Mahipal:~# pwd
```

```
/root

root@Mahipal:~# cd training/

root@Mahipal:~/training# ls

display.txt  log.txt  myfirstfile.txt  test  test2

root@Mahipal:~/training# pwd

/root/training

root@Mahipal:~/training# ls

display.txt  log.txt  myfirstfile.txt  test  test2

root@Mahipal:~/training# cd ..

root@Mahipal:~# ls

''$'\032'          nohup.out

 SWs               pass.txt

 backup.sh          test.sql

 basic_passwords.txt   training

 kill_slow_log.sh      vulnerabilities.csv

 kill_slow_log_2.sh    y

 mytraining

root@Mahipal:~# cd mytraining

root@Mahipal:~/mytraining# ls

test.txt  test_3.tx

root@Mahipal:~/mytraining# rm -rf test.txt

root@Mahipal:~/mytraining# ls

test_3.tx

root@Mahipal:~/mytraining# rm -rf *

root@Mahipal:~/mytraining# ls

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#
```

```
root@Mahipal:~/mytraining# mkdir test

root@Mahipal:~/mytraining# ls

test

root@Mahipal:~/mytraining# rm -rf test

root@Mahipal:~/mytraining# ls

root@Mahipal:~/mytraining# ls

root@Mahipal:~/mytraining# vi test.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# vi test_2.txt

root@Mahipal:~/mytraining# ls

test.txt  test_2.txt

root@Mahipal:~/mytraining# rm -rf te*

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# vi test_2.txt

root@Mahipal:~/mytraining# vi test_1.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls

test_1.txt  test_2.txt

root@Mahipal:~/mytraining# rm  test_1.txt

root@Mahipal:~/mytraining# man rm


[1]+  Stopped          man rm

root@Mahipal:~/mytraining# ls

test_2.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#
```

```
root@Mahipal:~/mytraining#

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root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# history



root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ssh

usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]

        [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]

        [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11]

        [-i identity_file] [-J [user@]host[:port]] [-L address]
```

[-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]

                [-Q query_option] [-R address] [-S ctl_path] [-W host:port]

                [-w local_tun[:remote_tun]] destination [command]

root@Mahipal:~/mytraining# zgip

Command 'zgip' not found, did you mean:

  command 'zip' from deb zip (3.0-11build1)

  command 'gzip' from deb gzip (1.10-0ubuntu4)

  command 'gip' from deb gip (1.7.0-1-4build1)

Try: apt install <deb name>

root@Mahipal:~/mytraining# ls

test_2.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls

test_2.txt

==

-rw-r--r-- 1 Mahipal root 0 Jul 23 19:46 test_2.txt

 U G O

 644

d rwx r-x r-x 1 root root 4.0K Jul 23 20:06 test

755

chmod 777 test_2.txt

7 7 7

111 111 111

U   G   O

111=4+2+1=7

(2 pow 0)*1+(2 pow 1)*1 + (2 pow 2)*1

1*1+2*1+4*1

1+2+4=7

234

u=2=010=rwx=write

g=3=011=rwx=write and exe

o=4=100=rwx=read

==

root@Mahipal:~/mytraining# ls -lrth

total 0

-rw-r--r-- 1 root root 0 Jul 23 19:46 test_2.txt

root@Mahipal:~/mytraining# mkdir test

root@Mahipal:~/mytraining# ls

test test_2.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rw-r--r-- 1 root root   0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

root@Mahipal:~/mytraining# ls

test test_2.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rw-r--r-- 1 root root   0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# chmod 777 test_2.txt

root@Mahipal:~/mytraining# ls

test test_2.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root   0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

root@Mahipal:~/mytraining# ls

test test_2.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root   0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

root@Mahipal:~/mytraining# vi permission.txt

root@Mahipal:~/mytraining# ls

permission.txt test test_2.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root   0 Jul 23 19:46 test_2.txt

```
drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rw-r--r-- 1 root root    0 Jul 23 21:37 permission.txt

root@Mahipal:~/mytraining# chmod 770 permission.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

root@Mahipal:~/mytraining# vi addperm.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls

addperm.txt  permission.txt  test  test_2.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chmod +x addperm.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt
```

```
drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-rwxr-xr-x 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chmod -x addperm.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chmod +w addperm.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chmod -w addperm.txt

root@Mahipal:~/mytraining#
```

```
root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-r--r--r-- 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chmod +w addperm.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# users

root@Mahipal:~/mytraining# groups

root docker

root@Mahipal:~/mytraining# userad krishna


Command 'userad' not found, did you mean:


  command 'useradd' from deb passwd (1:4.8.1-1ubuntu5.20.04)

  command 'uservd' from deb userv (1.2.0)


Try: apt install <deb name>
```

```
root@Mahipal:~/mytraining# useradd krishna

root@Mahipal:~/mytraining# users

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# groupadd krishna

groupadd: group 'krishna' already exists

root@Mahipal:~/mytraining# groups

root docker

root@Mahipal:~/mytraining# groupadd krishna

groupadd: group 'krishna' already exists

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# passwd krishna

New password:

Retype new password:

passwd: password updated successfully

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls

addperm.txt  permission.txt  test  test_2.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# groups

root docker

root@Mahipal:~/mytraining# ls

addperm.txt  permission.txt  test  test_2.txt

root@Mahipal:~/mytraining# ls -lrth
```

```
total 0

-rwxrwxrwx 1 root root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 root root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chown mahipal:root addperm.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root    root    0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root    root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root    root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 mahipal root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chown mahipal:docker addperm.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root    root     0 Jul 23 19:46 test_2.txt

drwxr-xr-x 1 root    root   4.0K Jul 23 20:06 test

-rwxrwx--- 1 root    root     0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 mahipal docker   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# chgrp root addperm.txt

root@Mahipal:~/mytraining#

root@Mahipal:~/mytraining# ls

addperm.txt  permission.txt  test  test_2.txt

root@Mahipal:~/mytraining# ls -lrth

total 0

-rwxrwxrwx 1 root    root    0 Jul 23 19:46 test_2.txt
```

```
drwxr-xr-x 1 root    root 4.0K Jul 23 20:06 test

-rwxrwx--- 1 root    root    0 Jul 23 21:37 permission.txt

-rw-r--r-- 1 mahipal root   14 Jul 23 21:39 addperm.txt

root@Mahipal:~/mytraining# newgrp krishna

root@Mahipal:~/mytraining# groups

krishna root docker
```