To check Desktop environment; major distributions gnome and kde

ls /usr/bin/*session

Releaese

lsb_release - print distribution-specific information

Linux standard base

lsb_release -a

for more information

lsb_release --help

Print system specific information

uname

Kernel name

uname -s

Node name

uname -n uname -a #all the details

More information

man uname

To print hostname
hostname
To print effective username/Logged in user
whoami
Displaying information about USB buses in the system and the devices connected to them.
lsusb
Displaying information about PCI buses in the system and devices connected to them
lspci
Cursor Movement
up-arrow # to see previous command tab - to print remaning words in a command
tab - to print remaning words in a command
Some more commands
Some more commands displaying calendar

to close a terminal session

exit

list specific file

ls -l <nameoffile>

Field explanation

Field 1 – file permission

- - normal file
- d:directory
- s:socket file
- l:link file

-rw-r--r-- 1 rohit rohit user, group, any/others

60 Aug 28 21:09 ntp-server.txt

Field 2 - Number of links: (like 1,2,3 depends)

Field 3 – Owner

Field 4 – Group

Field 5 – Size (bytes)

Field 6 – Last modified date and time

Field 7 – File name

ls -a #list all the hidden files and directories

to write some content inside a file

echo

echo <somemsg> > <nameoffile> #if file NA on the file is created, overright of data is already available echo <somemsg> >> <name of the file> #append contents in a file

change permission of the file

chmmod #change file mode bits numeric -0 - nothing 4 -only read 2 - only write 1 - only execute 4+1 = 5 read and execute 4+2 = 6 read and write both 4+2+1 = 7 read, write and execute chmod 700 a.txt #readwriteexeute to user only Letters r -read w - write x -execute u -user g -group o -other Assign user 'read write and execute' permissions (+ to add) chmod u+rwx a.txt Remove user's 'read write and execute' permissions (- to remove)

copy a file

chmod u-rwx a.txt

```
cp <sourcepath> <destinationpath>
```

move file

```
mv <sourcepath> <destinationpath>
```

Mapping of host and IP address:

```
BHIoT$ cat /etc/hosts
127.0.0.1 localhost
127.0.1.1 iot
127.0.1.2 rohit.iot
```

The following lines are desirable for IPv6 capable hosts

```
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

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