

Linux Commands

ask

Ahammed Siraj K K
College of Engineering Chengannur
ask@ceconline.edu

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ls

```
ls  
ls -l  
ls -lt  
ls -ltr  
ls ab* -d
```

```
alias  
alias ll='ls -al'  
unalias ll  
~ /.bash_aliases  
ll > abc.tct  
cat abc.txt  
cat > abc.txt  
^ z
```

sort, cut

sort

field separator: white space

```
sort -n fn
```

```
sort -nk7 fn
```

```
sort -rnk7 fn
```

```
sort -t'$\t' -k7 fn
```

cut

field separator: TAB

```
cut -f3 fn
```

```
cut -f-3
```

```
cut f1-3
```

```
cut f3-
```

```
cut f3 -d' '
```

paste, grep, join

```
paste a.txt b.txt
```

```
join r.t1.txt r.t2.txt // files should be sorted on common field
```

```
join -1 2 -2 3 r.t1.txt r.t2.txt //join on second field of file 1 and 3rd field of file2
```

```
join r.t1.txt r.t2.txt -j2 // common field is second column
```

```
grep 234 abc.txt
```

```
grep -c
```

```
grep -w
```

```
grep -r
```

```
grep "abc\|xyz" pqr.txt
```

```
grep -E "abc|xyz" pqr.txt
```

```
AND
```

```
grep -E 'pattern1.*pattern2' filename
```

Miscellaneous

```
ln -s  
uname  
uname -a  
man  
cat -n // to insert line numbers before every line  
sed '1i \\t Line 1 after tab \\n Line 2 \\t Line 2 \\n Line 3 \\n'  
temp1.txt  
free
```

Networking

ifconfig

```
ifconfig -a
```

```
ifconfig eth0 192.168.0.20
```

```
route
```

```
route add default gw 192.168.1.1
```

```
iwconfig
```

```
dhclient usb0
```

```
tcpdump -i eth0
```

```
ping
```

```
ifup
```

```
ifdown
```

Directory & File handling

mkdir

cd

rmdir

cp

cp -p

rm

rm -r

mv

locate

updatedb

find / -name abc

df

du

Remote access

```
ssh s1
ssh 14.139.184.215
ssh ask@14.139.184.215
ssh ask@mec.ac.in
scp temp1.txt 14.139.184.215:
scp temp1.txt ask@14.139.184.215:
scp s1:temp1.txt .
scp ask@14.139.184.215:temp1.txt .
rsync
rsync -a
rsync -a index.html s1:c3a
rsync -a {index.html,sess.txt} s1:c3a
```


process

```
ps
```

```
ps -ef
```

```
kill
```

```
kill -9 1234
```

```
pkill dhcp
```

```
top
```

```
service apache start
```

Redirection

```
ll > abc.tct  
ps -ef | grep ask
```

users

who

who -a

whoami

id //user, group id

id -u //user id

id -un //user name

last

last -n9

last lpp

useradd ask

useradd -d /home/ask ask

usermod

passwd ask

deluser

su

su lpp

mount

```
mount /media/usb /home/ask/usb  
umount /media/usb
```

file permissions

||

```
chmod +rwx a.txt
```

```
chmod 777 b.txt
```

```
chown ask abc.txt
```

```
chown ask:ask abc.txt
```

Miscellaneous examples

To remove blank line

```
grep '^.' abc.txt
```

To insert one tab space at the beginning of each line

```
awk '{print "\t" $0}' roll.txt
```

At the end of the line: `awk '{print $0 "\t" }'` ap.ieee.txt

pdf to text

```
pdftotext a.pdf -layout
```

To sum the numbers in file

```
awk '{s+=$1} END {print s}' file
```

To sort excluding top line

```
(head -n 1 a.txt && tail -n +2 a.txt | sort -nr -k5 -t$'\t')
```

Miscellaneous examples

To grep contents of first file not in second file

```
grep -v -f rank.4.txt rank.txt
```

To list lines starting with -

```
grep '^-' cs.4.rank.txt
```

To sort on second column then on first column

```
sort -t- -k2,2 -k1 54.abs.txt
```

printing

lp fn

lp -o fitplot

-o page-set=odd //odd side printing option

-o outputorder=reverse // Print in reverse page order

lp -d

lp -h

-n

Miscellaneous

```
poweroff  
reboot  
write mec  
wall  
diff  
wget  
file  
less  
more  
tar xvzfp dir.tar.gz dir  
or files  
tar cvzfp dir.tar.gz  
tar tvzfp dir.tar.gz  
tar cvfp f.tar f1.txt f2.txt  
fsck
```