

# Unix/Ubuntu introduction

## Remote connection

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**Host:** name\_of\_user@address\_to\_server **port:** 22   *##using putty to acess the server*  
<https://www.putty.org/>

## Basics command

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mkdir *name\_of\_new\_directory*: create a new directory

pwd: see your location

clear: clear the screen

cd *path* : change the directory       *##ex: /xx/xx/home/user\_name\_home*

cd .. : return one folder           *##ex: /xx/xx/home/user\_name\_home/..*

qsub *job\_name.sge*               *##submit the job*

qstat -u *name\_user*: see the job process

ls : see all the files on folder

tar -cvfz *name\_of\_tar\_file*.tar file 1 file2 ...       *##create a file tar.gz*

gunzip *name\_of\_file*           *## decompress the .gz*

rm *file.name*                   *## delete the file ## CAUTION*

du -hs *name\_file*               *##see the size of file*

less *name\_of\_file*           *## see the file*

q : quit the file               *##when using less*

## Manipulation file command

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vi *name\_of\_file.extension*       *##create a new file*

insert or i : iniciate to write the file       *##press esc after finish write the file*

wq!: write and save the file       *##https://www.tutorialspoint.com/unix/unix-vi-editor.htm*

q!: exit the file

cat *file 1 file 2 file 3* > *name\_of\_cat\_file.extension*   *##concatenate file*

sort *file\_name* > *name\_of\_sort\_file.extension*       *##sort the file*

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grep term_to_look name_of_file  ##looking for a term on the file
history > history.txt              ##save the last 500 command
cp file1 file2                   ## copy the file
cp -r name_of_file /net/hawkins/vol1/xx/xx  ##copy a file in other directory
wc -l name_of_file                ##count the number lines of file
head name_of_file                 ##the first 10 lines
tail name_of_file                 ##the last 10 lines
```

## Create a new job

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Vi name_of_job.sge

#####

#$ -S /bin/bash
#$ -pe serial 1 ## number of nodes
#$ -l mfree=10G -l h_rt=100:00:00 ## request of memory ##hours request
#$ -o /xx/xx/xx/xx  ##output log information
#$ -e xx/xx/xx/xx  ##error log information
#####
```

## Suggestions of references

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<https://www.oreilly.com/library/view/bash-pocket-reference/9781491941584/>

<https://www.amazon.com/Linux-Pocket-Guide-Essential-Commands-ebook/dp/B01GGQKXRG>

<https://www.oreilly.com/library/view/classic-shell-scripting/0596005954/>