ssh eeb24@IP-Address

File Pathname

/ root

. current directory

.. parent directory

~ home directory

|  |  |  |  |
| --- | --- | --- | --- |
| command | format | description | flags |
| ifconfig | ifconfig | prints info about server like ip address |  |
| ls | ls *flags* | prints all files in current directory | -a : all (prints hidden files)  -l : long (prints extra info) |
| pwd | pwd | prints working directory |  |
| cd | cd *name* | changes directory | .. : move out 1 directory  *nothing :* goes home/root |
| pushd | pushd *name* | goes to specific directory |  |
| popd | popd | goes to previous directory |  |
| locate | locate *name* | shows all references to *name*  “sudo updatedb” command may be necessary to update database |  |
| realpath |  |  |  |
| which | where *command* | check if/where command is installed |  |
| history | history | lists last 1000 unique commands |  |
| whatis | whatis *command* | tells you what *command* does |  |
| apropos | apropos *word* | shows all commands related to *word* |  |
| man | man *command* | prints manual for *command* |  |
| mkdir | mkdir *name* | make directory named *name* |  |
| touch | touch *file* | update date on existing file or create a new file if *file* does not exist |  |
| cp | cp *file copyfile/location* | copy file into current directory |  |
| scp | scp *srcFile/server dstFile/server* | secure copy between systems  ~ is the root | -r : recursive (for directories) |
| mv | mv *file newName* | move/rename *file* |  |
| rm | rm *file* | remove file | -r : recursive (removes a directory & its children) |
| rmdir | rmdir *directory* | remove an empty directory |  |
| cat | cat *file*  cat > *file*  cat *f1 f2 > f3* | reads *file*  stands for (concatenate) | > : overwrites file  >> : adds on to file  < : receive input from file  -n : number print lines |
| more | more | page through large amounts of text with space (type Q to quit) |  |
| less | less | line by line with arrows  space for pages (type Q to quit) |  |
| nano | nano *file* | writes into *file*  nano alone creates a new file |  |
| vi | vi *file* | text editor for *file* |  |
| sudo | sudo *command* | allows use of administrative commands | -s : become root user  exit : leaves |
| su | su – *name* | switches user to *name* |  |
| users | users | prints all users online |  |
| id | id | tells info about account |  |
| killall | killall | quits name application you opened  *ctrl c* may be the same |  |
| exit | exit | closes terminal  *ctrl d* also works |  |
| echo | echo *text* | prints line of text entered |  |
| date | date | prints date and time |  |
| time | time *program* | prints run time of *program* |  |
| du | du *file* | prints file size |  |
| help | help *command* | explains usage of *command* |  |
| passwd | passwd | change password |  |
| chmod | chmod ### *file* | change permissions of file. Each # represents number for group in order: owner, group, other  7 = 111 = rwx  5 = 101 = r-x  4 = 100 = r--  etc. |  |
| sort | sort *ls…* | alphabetically organizes input | -r : reverse |
| cmd | cmd < *file* | receives command from *file* |  |
| head | head *number* | -number prints first number lines |  |
| tail | tail *number* | -number prints last number lines  +number prints all after number |  |
| tee | tee *file* | within a piping series tee records intermittent outputs into *file* |  |
| cut | cut *flag* |  | -f *listOfCols* : print column list  -c *listOfPos* : print chars in positions  -d *c* : use *c* as column separator  -b 1 : cuts all but first char |
| paste |  | combine columns |  |
| tr | tr *flag ‘target’ ‘replacer’* | translate  USE THE MANUAL | -c : complement ( replace all nontarget)  -cd : changes to specified type  -d : deletes target  -s : for spacing? |
| wc | wc *flag* | counts | -l : lines  -w : words  -c : characters |
| rename | rename ‘s/*tgt*/*new*/g’ \* | replaces all tgt with new |  |
| sed |  | string manipulation with many flags. USE MAN |  |
|  |  |  |  |

a\* prints all files starting with ‘a’ and having anything(\*) after it

fdisk : partition hard disk?

fsck : check disk?

mkfs : format partition?

Graphical user interface

Description automatically generated

d : directory

- : normal file

r : readable

w : writable

x : executable

permission are divided into 3 groups: Owner, Group, Other

permission can be change with chmod command

BASH Scripting

Text

Description automatically generated with low confidenceGraphical user interface, text, application

Description automatically generatedText

Description automatically generatedText

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text

Description automatically generatedGraphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generatedGraphical user interface, text

Description automatically generated