# ADVANCED COMPUTER NETWORK ASSIGNMENT

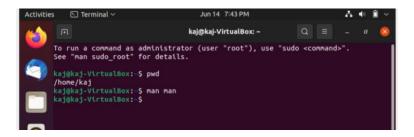
**Topic:** - Take screenshots of basic Linux commands

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#### **BASIC LINUX COMMANDS**

## 1. pwd (Print Working Directory)

Use the pwd command to find out the path of the current working directory (folder) you're in.



# 2. history

Ø When you have been using Linux for a certain period of time, you will quickly notice that you can run hundreds of commands everyday. As such, running history command is particularly useful if you want to review the commands you have entered before.

Ø history

Ø !command number to run a command from history

## 3. man

If we are confused about the function of certain Linux commands we can easily learn how to use them right from Linux's shell by using the man command. For instance, entering **man** tail will show the manual instruction of the tail command.

man man man Is

```
kaj@kaj-VirtualBox: ~
                                                      kaj@kaj-VirtualBox: ~
                                                                                                                                                                                                                                     User Commands
                                                                                                                                                                                                                                                                                                                           TAIL(1)
man - an interface to the system reference manuals
                                                                                                                                                                 AME
 nan [man options] [[section] page ...] ...
man -k [apropos options] regexp ...
man -k [man options] [section] term ...
man -f [whatis options] page ...
man -l [man options] file ...
man -w|-N [man options] page ...
                                                                                                                                                                              tail - output the last part of files
                                                                                                                                                               SYNOPSIS
tail [<u>OPTION]</u>... [FILE]...
                                                                                                                                                                 DESCRIPTION
                                                                                                                                                                              Print the last 10 lines of each FILE to standard output. With more than one FILE, precede each with a header giving the file name.
wan is the system's manual pager. Each <u>page</u> argument given to man is normally the name of a program, utility or function. The <u>manual page</u> associated with each of these arguments is then found and displayed. A <u>section</u>, if provided, will direct <u>man</u> to look only in that <u>section</u> of the manual. The default action is to search in all of the available <u>sections</u> following a pre-defined order (see <u>DEFAULTS</u>), and to show only the first <u>page</u> found, even if <u>page</u> exists in several <u>sections</u>.
                                                                                                                                                                             With no FILE, or when FILE is -, read standard input.
                                                                                                                                                                              Mandatory arguments to long options are mandatory for short options too.
                                                                                                                                                                              -c, --bytes=[+]NUM
    output the last NUM bytes; or use -c +NUM to output starting
    with byte NUM of each file
The table below shows the \underline{\text{section}} numbers of the manual followed by the types of pages they contain.
                                                                                                                                                                               -f, --follow[={name|descriptor}]
    output appended data as the file grows;
        Executable programs or shell commands
System calls (functions provided by the kernel)
Library calls (functions within program libraries)
Spectal fites (usually found in <u>/dev</u>)
File formats and conventions, e.g. <u>/etc/passwd</u>
                                                                                                                                                                                             an absent option argument means 'descriptor'
                                                                                                                                                                                            same as --follow=name --retry
                                                                                                                                                                 Manual page tail(1) line 1 (press h for help or q to quit)
```

#### 4. cd

To navigate through the Linux files and directories, use the cd It requires either the full path or the name of the directory, depending on the current working directory that you're in.

Shortcuts to help you navigate quickly:

Ø cd .. (with two dots) to move one directory up

Ø cd to go straight to the home folder

Ø cd- (with a hyphen) to move to your previous directory

```
Templates Public Music Documents
kaj@kaj-VirtualBox:~$ cd Documents$
kaj@kaj-VirtualBox:~$ cd cd Videos/
bash: cd: too many arguments
kaj@kaj-VirtualBox:~$ cd Videos/
kaj@kaj-VirtualBox:~$ cd Videos/
kaj@kaj-VirtualBox:~$ cd Documents/
kaj@kaj-VirtualBox:~$ cd Documents/
kaj@kaj-VirtualBox:~$ Documents$ mkdir files
kaj@kaj-VirtualBox:~$ Documents$ ls
abcc.sh abc.sh files
kaj@kaj-VirtualBox:~$ Documents$ mkdir files/file1
kaj@kaj-VirtualBox:~$ Documents$ cd files/
kaj@kaj-VirtualBox:~$ Documents$ cd files/
kaj@kaj-VirtualBox:~$ Documents$ ls
file1
```

## 5. Is

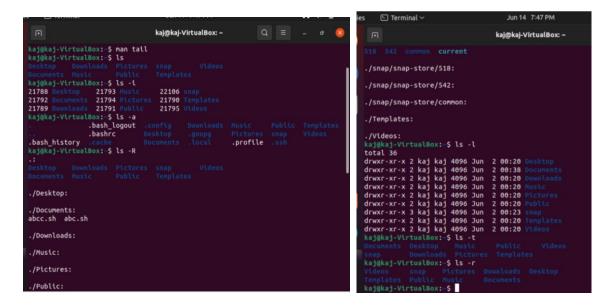
The Is command is used to view the contents of a directory.

By default, this command will display the contents of your current working directory.

There are variations you can use with the Is command:

- Is -R will list all the files in the sub-directories as well
- Is -I long listing
- Is -a will show the hidden files
- **Is -al** will list the files and directories with detailed information like the permissions, size, owner, etc.

- Is -t lists files sorted in the order of "last modified".
- **Is** -**r** option will reverse the natural sorting order. Usually used in combination with other switches such as Is -tr. This will reverse the time-wise listing.



## 6. mkdir

Use mkdir command to make a new directory.

To generate a new directory inside another directory, use this Linux basic command.

```
kaj@kaj-VirtualBox:~$ cd Documents/
kaj@kaj-VirtualBox:~/Documents$ mkdir files
kaj@kaj-VirtualBox:~/Documents$ ls
abcc.sh abc.sh files
kaj@kaj-VirtualBox:~/Documents$ mkdir files/file1
kaj@kaj-VirtualBox:~/Documents$ cd files/
kaj@kaj-VirtualBox:~/Documents$ ls
```

#### 7. rmdir

If you need to delete a directory, use the rmdir command. However, rmdir only allows you to delete empty directories.

```
file1

kaj@kaj-VirtualBox:~/Documents/files$ rmdir file1

kaj@kaj-VirtualBox:~/Documents/files$ ls

kaj@kaj-VirtualBox:~/Documents/files$
```

### 8. touch

The touch command allows you to create a blank new file through the Linux command line.

```
kaj@kaj-VirtualBox:~/Documents/files$ ls
kaj@kaj-VirtualBox:~/Documents/files$ touch file1.txt
kaj@kaj-VirtualBox:~/Documents/files$ touch file2.txt file3.txt
kaj@kaj-VirtualBox:~/Documents/files$ ls
file1.txt file2.txt file3.txt
kaj@kaj-VirtualBox:~/Documents/files$
```

## 9. rm

The rm command is used to delete directories and the contents within them. If you only want to delete the directory — as an alternative to rmdir — use rm -r. To remove a file use **rm filename** 

```
kaj@kaj-VirtualBox:~/Documents/files$ ls
file1.txt file2.txt file3.txt
kaj@kaj-VirtualBox:~/Documents/files$ rm file3.txt
kaj@kaj-VirtualBox:~/Documents/files$ ls
file1.txt file2.txt
kaj@kaj-VirtualBox:~/Documents/files$
```

#### 10. cat

cat (short for concatenate) is one of the most frequently used commands in Linux. It is used to list the contents of a file on the standard output stdout .

To run this command, type cat followed by the file's name and its extension. For instance: cat file.txt. Here are other ways to use the cat command:

Ø cat > filename creates a new file

Ø cat filename1 filename2>filename3 joins two files (1 and 2) and stores the output of them in a new file (3)

Ø to convert a file to upper or lower case use, cat filename | tr a-z A-Z >output.txt Ø cat >>myfile insert data to a file

```
file1.txt file2.txt
kaj@kaj-VirtualBox:~/Documents/files$ cat file1.txt
kaj@kaj-VirtualBox:~/Documents/files$ cat > file1.txt
Hello World
I'm Anilect Jose
kaj@kaj-VirtualBox:~/Documents/files$ cat > file2.txt
Also I'm from AJCE
kaj@kaj-VirtualBox:~/Documents/files$ cat file1.txt file2.txt
Hello World
I'm Anilect Jose
Also I'm from AJCE
kaj@kaj-VirtualBox:~/Documents/files$ cat file1.txt file2.txt > file3.txt
kaj@kaj-VirtualBox:~/Documents/files$ cat file3.txt
Hello World
I'm Anilect Jose
Also I'm from AJCE
kaj@kaj-VirtualBox:~/Documents/files$ cat file3.txt | tr a-z A-Z
HELLO WORLD
I'M ANILECT JOSE
ALSO I'M FROM AJCE
kaj@kaj-VirtualBox:~/Documents/files$ cat file3.txt | tr A-Z a-z
hello world
i'm anilect jose
also i'm from ajce
kaj@kaj-VirtualBox:~/Documents/files$
```