

- List 3 Linux Distribution :
  - Ubuntu
  - Fedora
  - Red Hat
- what is the **man** command used for
  - manual (external command)
- What is the difference between rm and rmdir using man command?
  - rm : remove files
  - rmdir : remove empty directory
- Create the following hierarchy under your home directory: (dir1 , docs , Documents

```
yara@yara: ~
yara@yara:~$ pwd
/home/yara
yara@yara:~$ mkdir dir1 docs
yara@yara:~$ ls
Desktop  docs      Downloads  ITIEmbedded  Music  Public  Templates
dir1     Documents Embox_cpp  mbr.bin      Pictures snap     Videos
yara@yara:~$
```

```
yara@yara: ~/docs
yara@yara:~$ pwd
/home/yara
yara@yara:~$ ls
Desktop  Downloads  ITIEmbedded  Music  Public  Templates
Documents Embox_cpp  mbr.bin      Pictures snap     Videos
yara@yara:~$ mkdir dir1 docs && ls
Desktop  docs      Downloads  ITIEmbedded  Music  Public  Templates
dir1     Documents Embox_cpp  mbr.bin      Pictures snap     Videos
yara@yara:~$ cd dir1/&& mkdir dir1{1..2}
yara@yara:~/dir1$ cd dir11/&& touch file1 && ls
file1
yara@yara:~/dir1/dir11$ cd ../../docs && touch mycv && ls
mycv
yara@yara:~/docs$ pwd
/home/yara/docs
yara@yara:~/docs$
```

```
yara@yara: ~/Documents
yara@yara:~$ pwd
/home/yara
yara@yara:~$ ls
Desktop  Downloads  ITIEmbedded  Music  Public  Templates
Documents  Embox_cpp  mbr.bin  Pictures  snap  Videos
yara@yara:~$ mkdir dir1 docs && ls
Desktop  docs  Downloads  ITIEmbedded  Music  Public  Templates
dir1  Documents  Embox_cpp  mbr.bin  Pictures  snap  Videos
yara@yara:~$ cd dir1/&& mkdir dir1{1..2}
yara@yara:~/dir1$ cd dir11/&& touch file1 && ls
file1
yara@yara:~/dir1/dir11$ cd ../../docs && touch mycv && ls
mycv
yara@yara:~/docs$ pwd
/home/yara/docs
yara@yara:~/docs$ cd ../Documents/ && touch OldFiles && ls
OldFiles
yara@yara:~/Documents$ pwd
/home/yara/Documents
```

- Remove dir11 with rmdir in one-step

This command didn't work because it can remove empty directory only

```
yara@yara:~/Documents$ cd ../dir1
yara@yara:~/dir1$ rmdir dir11/
rmdir: failed to remove 'dir11/': Directory not empty
yara@yara:~/dir1$
```

But we can do it using this command “rm -r dirname”

```
yara@yara:~/dir1$ rm -r dir11/
yara@yara:~/dir1$ ls
dir12
yara@yara:~/dir1$
```

- Remove OldFiles using rmdir -p command. State what happened to the hierarchy

Hierarchy 'll not change because this command work with directory OldFiles is file

```
yara@yara:~/dir1$ cd ../Documents/
yara@yara:~/Documents$ ls
OldFiles
yara@yara:~/Documents$ rmdir -p OldFiles
rmdir: failed to remove '-p': No such file or directory
rmdir: failed to remove 'OldFiles': Not a directory
```

- Write the absolute and relative path for the file mycv

```
yara@yara:~$ pwd
/home/yara
yara@yara:~$ cd docs/
yara@yara:~/docs$ ls
mycv
yara@yara:~/docs$ pwd
/home/yara/docs
yara@yara:~/docs$
```

- Copy the /etc/passwd file to your home directory making its name is mypasswd
- Rename this new file to be oldpasswd

```
yara@yara:~$ pwd
/home/yara
yara@yara:~$ cd /
yara@yara:/$ pwd
/
yara@yara:/$ ls
bin  cdrom  etc  lib  lost+found  mnt  proc  run  snap  swap.img  tmp  var
boot  dev  home  lib64  media  opt  root  sbin  srv  sys  usr
yara@yara:/$ cd etc/
yara@yara:/etc$ cp passwd ~/oldpasswd
yara@yara:/etc$ cd ~
yara@yara:~$ ls
Desktop  Documents  ITIEmbedded  oldpasswd  snap
dir1     Downloads  mbr.bin      Pictures   Templates
docs     Embox_cpp  Music        Public     Videos
yara@yara:~$
```

- You are in /usr/bin, list four ways to go to your home directory

```
yara@yara: ~
yara@yara:~$ cd /usr/bin
yara@yara:/usr/bin$ cd ~
yara@yara:~$ cd /usr/bin
yara@yara:/usr/bin$ cd
yara@yara:~$ cd /usr/bin
yara@yara:/usr/bin$ cd ../../home/yara
yara@yara:~$ cd /usr/bin
yara@yara:/usr/bin$ cd $HOME
yara@yara:~$
```

- List Linux commands in /usr/bin that start with letter w

```
yara@yara:~$ cd /usr/bin
yara@yara:/usr/bin$ ls w*
w          wdctl      which.debianutils  whoopsie-preferences  wpcctl
wall       wget       whiptail            wifi                   wpexec
watch      whatis     who                 wireplumber            write
watchgnupg whereis     whoami              word-list-compress     wwan
wc          which      whoopsie            wpa_passphrase
```

- What command type are used for?

Internal & external

```
yara@yara:~$ pwd
/home/yara
yara@yara:~$ type cd
cd is a shell builtin
yara@yara:~$ type rm
rm is hashed (/usr/bin/rm)
yara@yara:~$
```

- Show 2 types of command file in /usr/bin that start with letter c

```
Hello yara :)
yara@yara:~$ cd / && ls usr/bin/c*
usr/bin/c++          usr/bin/ciptool
usr/bin/c89          usr/bin/ckbcomp
usr/bin/c89-gcc      usr/bin/cksum
usr/bin/c99          usr/bin/clear
usr/bin/c99-gcc      usr/bin/clear_console
usr/bin/calibrate_ppa  usr/bin/cloud-id
usr/bin/canberra-gtk-play  usr/bin/cloud-init
usr/bin/cancel       usr/bin/cloud-init-per
usr/bin/captoinfo    usr/bin/cmp
usr/bin/cat           usr/bin/codepage
usr/bin/catman       usr/bin/col
usr/bin/cautious-launcher  usr/bin/colcrt
usr/bin/cc            usr/bin/colormgr
usr/bin/cd-create-profile  usr/bin/colrm
usr/bin/cd-fix-profile  usr/bin/column
usr/bin/cd-iccdump    usr/bin/comm
```

- Using man command find the command to read file.

```

root@Yara:~# man -k read
proc_pid_task (5)      - thread information
accessdb (8)          - dumps the content of a man-db database in a human readable format
dpkg-reconfigure (8)  - reconfigure an already installed package
erofs (5)             - the Enhanced Read-Only File System
fc-cat (1)            - read font information cache files
git-describe (1)      - Give an object a human readable name based on an available ref
git-prune-packed (1)  - Remove extra objects that are already in pack files
git-read-tree (1)     - Reads tree information into the index
git-symbolic-ref (1)  - Read, modify and delete symbolic refs
info (1)              - read Info documents
info (5)              - readable online documentation
infobrowser (1)       - read Info documents
netplan-get (8)       - read merged Netplan YAML configuration
nptl (7)              - Native POSIX Threads Library
numfmt (1)            - Convert numbers from/to human-readable strings
openssl-threads (7ssl) - Overview of thread safety in OpenSSL
pam_systemd_loadkey (8) - Read password from kernel keyring and set it as PAM authtok
proc_thread-self (5)  - thread information
proc_tid (5)          - thread information
pthreads (7)          - POSIX threads
rwarrray (3am)        - write and read gawk arrays to/from files
readdir (3am)         - directory input parser for gawk
readelf (1)           - display information about ELF files
readfile (3am)        - return the entire contents of a file as a string
readline (3readline) - get a line from a user with editing
readlink (1)          - print resolved symbolic links or canonical file names
readprofile (8)       - read kernel profiling information
sprof (1)             - read and display shared object profiling data
tee (1)               - read from standard input and write to standard output and files

```

- What is the usage of apropos command?

**apropos** command helps the user when they don't remember the exact command but knows a few keywords related to the command that define its uses or functionality. It searches the Linux man page with the help of the keyword provided by the user to find the command and its functions.

**Syntax:** apropos [OPTION..] KEYWORD...

```

root@Yara:~# apropos read
proc_pid_task (5)      - thread information
accessdb (8)          - dumps the content of a man-db database in a human readable format
dpkg-reconfigure (8)  - reconfigure an already installed package
erofs (5)             - the Enhanced Read-Only File System
fc-cat (1)            - read font information cache files
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```