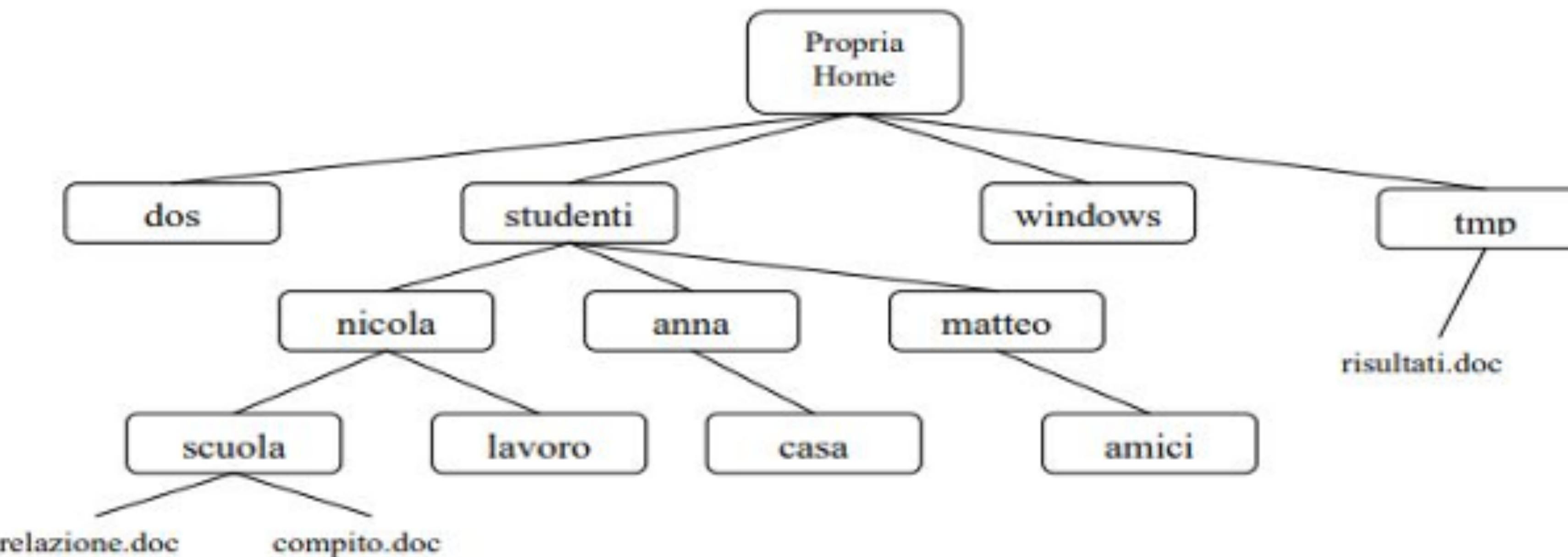


# ESERCIZIO W5D1 - SHELL LINUX

## Introduzione:

Le Shell linux sono fondamentalmente degli interpreti di comandi che ti permettono di interagire col sistema operativo. Con le shell puoi eseguire comandi , script, gestire file, processi, e come nel nostro caso creare cartelle e sottocartelle.



# Capitolo 1: creazione cartelle come da schema . Ho voluto mantenere un unico terminale lasciando anche gli errori fatti nelle prove.

```
kali㉿kali2023:~
```

```
File Actions Edit View Help
```

```
↳ cd
```

```
↳ ls
```

```
Desktop Documents Downloads Music Pictures Public Templates Videos dos
```

```
↳ mkdir studenti
```

```
↳ ls
```

```
↳ mkdir tmp
```

```
↳ ls
```

```
Desktop Documents Downloads Music Pictures Public Templates Videos dos studenti tmp windows
```

```
↳ ls
```

1

```
↳ rmkdir studenti/nicola/anna
```

```
↳ rmdir studenti/nicola
```

```
↳ ls
```

```
↳ ls -p studenti/nicola/scuola/lavoro
```

```
↳ ls
```

```
nicola
```

```
↳ ls studenti/nicola
```

```
scuola
```

```
↳ rmkdir studenti/nicola/scuola/lavoro
```

```
↳ mkdir studenti/nicola/lavoro
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ mkdir -o studenti/anna/caia
```

```
↳ ls
```

```
studenti
```

```
anna nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ mkdir -o studenti/anna/caia
```

```
↳ ls
```

```
studenti
```

```
anna nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ mkdir -o studenti/anna/caia
```

```
↳ ls
```

```
studenti
```

```
anna nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

```
Desktop Documents Downloads Music Pictures Public Templates Videos dos studenti tmp windows
```

```
↳ ls
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti/nicola/scuola
```

```
↳ touch studenti/nicola/scuola/relazione.doc
```

```
↳ ls
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti /nicola/scuola
```

```
ls: cannot access '/nicola/scuola': No such file or directory
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti /nicola
```

```
ls: cannot access '/nicola': No such file or directory
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

```
studenti/nicola
```

```
scuola relazione.doc
```

```
↳ ls
```

3

```
↳ ls
```

```
Desktop Documents Downloads Music Pictures Public Templates Videos dos studenti tmp windows
```

```
↳ ls
```

```
studenti
```

```
nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
anna
```

```
↳ ls
```

```
studenti/nicola/anna
```

```
↳ rmkdir studenti/nicola/anna
```

```
rmkdir: failed to remove 'studenti/nicola/anna': No such file or directory
```

```
↳ rmdir studenti/nicola/anna
```

```
↳ ls
```

```
studenti/nicola
```

```
nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
scuola
```

```
↳ rmkdir studenti/nicola/scuola/lavoro
```

```
↳ ls
```

```
studenti/nicola
```

```
scuola
```

```
↳ rmkdir studenti/nicola/scuola/lavoro
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

```
studenti/nicola/lavoro
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

2

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

```
studenti/nicola/caia
```

```
↳ ls
```

```
studenti
```

```
anna nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

```
studenti/nicola/caia
```

```
↳ ls
```

```
studenti
```

```
anna nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

```
studenti/nicola/caia
```

```
↳ ls
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti/nicola/scuola
```

```
↳ touch studenti/nicola/scuola/relazione.doc
```

```
↳ ls
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti /nicola/scuola
```

```
ls: cannot access '/nicola/scuola': No such file or directory
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti /nicola
```

```
ls: cannot access '/nicola': No such file or directory
```

```
studenti
```

```
anna matteo nicola
```

```
↳ ls
```

```
studenti/nicola
```

```
lavoro scuola
```

```
↳ ls
```

```
studenti/nicola
```

```
scuola relazione.doc
```

```
↳ ls
```

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File Actions Edit View Help  
kali@kali2023:~

```
(kali㉿kali2023) [-] $ ls studenti
anna nicola

(kali㉿kali2023) [-] $ mkdir -p studenti/matteo/scuola
(kali㉿kali2023) [-] $ ls
Desktop Documents Downloads Music Pictures Public Templates Videos dos studenti tmp windows

(kali㉿kali2023) [-] $ ls studenti
anna matteo nicola

(kali㉿kali2023) [-] $ touch studenti/nicola/scuola/relazione.doc
(kali㉿kali2023) [-] $ ls studenti
anna matteo nicola

(kali㉿kali2023) [-] $ ls studenti/nicola/scuola
ls: cannot access '/nicola/scuola': No such file or directory
studenti:
anna matteo nicola

(kali㉿kali2023) [-] $ ls studenti/nicola
ls: cannot access '/nicola': No such file or directory
studenti:
anna matteo nicola

(kali㉿kali2023) [-] $ ls studenti/nicola/lavoro
lavoro scuola

(kali㉿kali2023) [-] $ ls studenti/nicola/scuola
relazione.doc

(kali㉿kali2023) [-] $ touch studenti/nicola/lavoro/compito.doc
(kali㉿kali2023) [-] $ ls studenti/nicola/lavoro
compito.doc

(kali㉿kali2023) [-]
```

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File Actions Edit View Help  
kali@kali2023:~

```
(kali㉿kali2023) [-] $ ls
Desktop Documents Downloads Music Pictures Public Templates Videos dos studenti tmp windows

(kali㉿kali2023) [-] $ ls studenti
anna matteo nicola

(kali㉿kali2023) [-] $ touch studenti/nicola/scuola/relazione.doc
(kali㉿kali2023) [-] $ ls studenti
anna matteo nicola

(kali㉿kali2023) [-] $ ls studenti /nicola/scuola
ls: cannot access '/nicola/scuola': No such file or directory
studenti:
anna matteo nicola

(kali㉿kali2023) [-] $ ls studenti /nicola
ls: cannot access '/nicola': No such file or directory
studenti:
anna matteo nicola

(kali㉿kali2023) [-] $ ls studenti/nicola
lavoro scuola

(kali㉿kali2023) [-] $ ls studenti/nicola/scuola
relazione.doc

(kali㉿kali2023) [-] $ touch studenti/nicola/lavoro/compito.doc
(kali㉿kali2023) [-] $ ls studenti/nicola/lavoro
compito.doc

(kali㉿kali2023) [-] $ touch tmp/risultati.doc
(kali㉿kali2023) [-] $ ls tmp
risultati.doc

(kali㉿kali2023) [-]
```

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File Actions Edit View Help  
kali@kali2023:~

```
(kali㉿kali2023) [-] $ ls studenti/nicola/lavoro
compito.doc

(kali㉿kali2023) [-] $ touch tmp/risultati.doc
(kali㉿kali2023) [-] $ ls tmp
risultati.doc

(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc cd/
cp: cannot stat 'studenti/nicola/scuola/compito.doc': No such file or directory

(kali㉿kali2023) [-] $ cp s
(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc home kali
cp: target 'kali': No such file or directory

(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc /home kali
cp: target 'kali': No such file or directory

(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc /home/Kali
cp: target 'Kali': No such file or directory

(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc /home/kali
cp: cannot stat 'studenti/nicola/scuola/compito.doc': No such file or directory

(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc /home/kali
cp: cannot stat 'studenti/nicola/scuola/compito.doc': No such file or directory

(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc /home/kali
cp: cannot stat 'studenti/nicola/scuola/compito.doc': No such file or directory

(kali㉿kali2023) [-] $ ls studenti/nicola/scuola
relazione.doc

(kali㉿kali2023) [-] $ touch studenti/nicola/scuola/compito.doc
(kali㉿kali2023) [-] $ cp studenti/nicola/scuola/compito.doc /home/kali
(kali㉿kali2023) [-] $ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos studenti tmp windows

(kali㉿kali2023) [-] $ mv studenti/nicola/scuola/relazione.doc /home/kali
(kali㉿kali2023) [-]
```

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File Actions Edit View Help  
kali@kali2023:~

```
(kali㉿kali2023) [-] $ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos studenti tmp windows

(kali㉿kali2023) [-] $ mv studenti/nicola/scuola/relazione.doc /home/kali
(kali㉿kali2023) [-]
```

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3

```
kali@kali2023:~
```

```
File Actions Edit View Help
cp: target 'kali': No such file or directory
(kali㉿kali2023) [-]
$ cp studenti/nicola/scuola/compito.doc /home/kali
cp: cannot stat 'studenti/nicola/scuola/compito.doc': No such file or directory
(kali㉿kali2023) [-]
$ cp studenti/nicola/scuola/compito.doc /home/kali
cp: cannot stat 'studenti/nicola/scuola/compito.doc': No such file or directory
(kali㉿kali2023) [-]
$ ls studenti/nicola/scuola
relazione.doc
(kali㉿kali2023) [-]
$ touch studenti/nicola/scuola/compito.doc
(kali㉿kali2023) [-]
$ cp studenti/nicola/scuola/compito.doc /home/kali
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos studenti tmp windows
(kali㉿kali2023) [-]
$ mv studenti/nicola/scuola/relazione.doc /home/kali
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti tmp windows
(kali㉿kali2023) [-]
$ rm studenti/nicola/scuola/relazione.doc /home/kali
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti tmp windows
(kali㉿kali2023) [-]
$ rmdir tmp
rmdir: failed to remove 'tmp': Directory not empty
(kali㉿kali2023) [-]
$ rmdir tmp/risultati.doc
rmdir: failed to remove 'tmp/risultati.doc': Not a directory
(kali㉿kali2023) [-]
$ rm tmp/risultati.doc
(kali㉿kali2023) [-]
$ rmdir tmp
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti windows
(kali㉿kali2023) [-]
$ touch studenti/nicola/lavoro/pippo.txt
(kali㉿kali2023) [-]
$ ls studenti/nicola/lavoro
compito.doc pippo.txt
(kali㉿kali2023) [-]
```

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```
kali@kali2023:~
```

```
File Actions Edit View Help
(kali㉿kali2023) [-]
$ touch studenti/nicola/scuola/compito.doc
(kali㉿kali2023) [-]
$ cp studenti/nicola/scuola/compito.doc /home/kali
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti tmp windows
(kali㉿kali2023) [-]
$ mv studenti/nicola/scuola/relazione.doc /home/kali
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti tmp windows
(kali㉿kali2023) [-]
$ rmdir tmp
rmdir: failed to remove 'tmp': Directory not empty
(kali㉿kali2023) [-]
$ rmdir tmp/risultati.doc
rmdir: failed to remove 'tmp/risultati.doc': Not a directory
(kali㉿kali2023) [-]
$ rm tmp/risultati.doc
(kali㉿kali2023) [-]
$ rmdir tmp
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti windows
(kali㉿kali2023) [-]
$ touch studenti/nicola/lavoro/pippo.txt
(kali㉿kali2023) [-]
$ ls studenti/nicola/lavoro
compito.doc pippo.txt
(kali㉿kali2023) [-]
$ chmod 644 studenti/nicola/lavoro/pippo.txt
(kali㉿kali2023) [-]
$ ls -l
total 44
drwxr-xr-x 3 kali kali 4096 Jul 23 16:33 Desktop
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Documents
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Downloads
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Music
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Pictures
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Public
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Templates
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Videos
-rw-r--r-- 1 kali kali 8 Jul 23 17:07 compito.doc
drwxr-xr-x 2 kali kali 4096 Jul 23 16:32 dos
-rw-r--r-- 1 kali kali 8 Jul 23 16:56 relazione.doc
drwxr-xr-x 4 kali kali 4096 Jul 23 17:19 studenti
drwxr-xr-x 2 kali kali 4096 Jul 23 16:36 windows
(kali㉿kali2023) [-]
$ ls -l studenti
total 8
drwxr-xr-x 3 kali kali 4096 Jul 23 16:47 matteo
drwxr-xr-x 4 kali kali 4096 Jul 23 16:45 nicola
(kali㉿kali2023) [-]
```

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```
kali@kali2023:~
```

```
File Actions Edit View Help
ls
(kali㉿kali2023) [-]
$ cp studenti/nicola/scuola/compito.doc /home/kali
cp: cannot stat 'studenti/nicola/scuola/compito.doc': No such file or directory
(kali㉿kali2023) [-]
$ ls studenti/nicola/scuola
relazione.doc
(kali㉿kali2023) [-]
$ touch studenti/nicola/scuola/compito.doc
(kali㉿kali2023) [-]
$ cp studenti/nicola/scuola/compito.doc /home/kali
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos studenti tmp windows
(kali㉿kali2023) [-]
$ mv studenti/nicola/scuola/relazione.doc /home/kali
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti tmp windows
(kali㉿kali2023) [-]
$ rmdir tmp
rmdir: failed to remove 'tmp': Directory not empty
(kali㉿kali2023) [-]
$ rmdir tmp/risultati.doc
rmdir: failed to remove 'tmp/risultati.doc': Not a directory
(kali㉿kali2023) [-]
$ rm tmp/risultati.doc
(kali㉿kali2023) [-]
$ rmdir tmp
(kali㉿kali2023) [-]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti windows
(kali㉿kali2023) [-]
$ touch studenti/nicola/lavoro/pippo.txt
(kali㉿kali2023) [-]
$ ls studenti/nicola/lavoro
compito.doc pippo.txt
(kali㉿kali2023) [-]
```

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```
kali@kali2023:~
```

```
File Actions Edit View Help
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc dos relazione.doc studenti windows
(kali㉿kali2023) [-]
$ touch studenti/nicola/lavoro/pippo.txt
(kali㉿kali2023) [-]
$ ls studenti/nicola/lavoro
compito.doc pippo.txt
(kali㉿kali2023) [-]
$ chmod 644 studenti/nicola/lavoro/pippo.txt
(kali㉿kali2023) [-]
$ ls -l
total 1
-rw-r--r-- 1 kali kali 8 Jul 23 17:12 studenti/nicola/lavoro/pippo.txt
(kali㉿kali2023) [-]
$ mv studenti/anna .anna
(kali㉿kali2023) [-]
$ ls -a
.anna .cache .face.icon .mozilla .viminfo .zsh.history Downloads Templates relazione.doc
..bash_logout .config .gnupg .msf4 .xsession-errors .zshrc Music Videos studenti
.ICIAuthority .bashrc .dmc .java .profile .xsession-errors.old Desktop Pictures compito.doc windows
.Kauthority .bashrc.original .face .local .sudo_as_admin_successful .xsessionrc Documents Public dos
(kali㉿kali2023) [-]
$ ls -l
total 44
drwxr-xr-x 3 kali kali 4096 Jul 23 16:33 Desktop
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Documents
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Downloads
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Music
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Pictures
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Public
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Templates
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Videos
-rw-r--r-- 1 kali kali 8 Jul 23 17:07 compito.doc
drwxr-xr-x 2 kali kali 4096 Jul 23 16:32 dos
-rw-r--r-- 1 kali kali 8 Jul 23 16:56 relazione.doc
drwxr-xr-x 4 kali kali 4096 Jul 23 17:19 studenti
drwxr-xr-x 2 kali kali 4096 Jul 23 16:36 windows
(kali㉿kali2023) [-]
$ ls -l studenti
total 8
drwxr-xr-x 3 kali kali 4096 Jul 23 16:47 matteo
drwxr-xr-x 4 kali kali 4096 Jul 23 16:45 nicola
(kali㉿kali2023) [-]
```

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```
kali㉿kali2023:~
```

File Actions Edit View Help

```
.. .bash_logout .config .gnupg .msf4 .xsession-errors .zshrc Music Videos studenti  
.ICEauthority .bashrc .dircr .java .profile .xsession-errors.old .zshrc Pictures Public windows  
.Xauthority .bashrc.original .face .local .sudo_as_admin_successful .xsessionffc Desktop Documents  
|(kali㉿kali2023)-[~]
```

```
$ ls -l
```

```
total 44  
drwxr-xr-x 3 kali kali 4096 Jul 23 16:33 Desktop  
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Documents  
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Downloads  
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Music  
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Pictures  
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Public  
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Templates  
drwxr-xr-x 2 kali kali 4096 Feb 23 2024 Videos  
-rw-r--r-- 1 kali kali 0 Jul 23 17:07 compito.doc  
drwxr-xr-x 2 kali kali 4096 Jul 23 16:32 dos  
-rw-r--r-- 1 kali kali 0 Jul 23 16:54 relazione.doc  
drwxr-xr-x 4 kali kali 4096 Jul 23 17:19 studenti  
drwxr-xr-x 2 kali kali 4096 Jul 23 16:36 windows
```

```
|(kali㉿kali2023)-[~]
```

```
$ ls -l studenti
```

```
total 8  
drwxr-xr-x 3 kali kali 4096 Jul 23 16:47 matteo  
drwxr-xr-x 4 kali kali 4096 Jul 23 16:45 nicola
```

```
|(kali㉿kali2023)-[~]
```

```
$ echo "pace massimiliano epicode 28225"
```

```
pace massimiliano epicode 28225
```

```
|(kali㉿kali2023)-[~]
```

```
$ echo "pace massimiliano epicode 28225"
```

```
|(kali㉿kali2023)-[~]
```

```
$ nano pippo.txt
```

```
|(kali㉿kali2023)-[~]
```

```
$ ls pippo.txt
```

```
pippo.txt
```

```
|(kali㉿kali2023)-[~]
```

```
$ ls -l pippo.txt
```

```
-rw-r--r-- 1 kali kali 31 Jul 23 17:24 pippo.txt
```

```
|(kali㉿kali2023)-[~]
```

```
$ cat pippo.txt
```

```
pace massimiliano epicode 2025
```

```
|(kali㉿kali2023)-[~]
```

```
$ |
```

```
[kali㉿kali2023:~] ls -l
total 44
drwxr-x 3 kali kali 4096 Jul 23 16:33 Desktop
drwxr-x 2 kali kali 4096 Feb 23 2024 Documents
drwxr-x 2 kali kali 4096 Feb 23 2024 Downloads
drwxr-x 2 kali kali 4096 Feb 23 2024 Music
drwxr-x 2 kali kali 4096 Feb 23 2024 Pictures
drwxr-x 2 kali kali 4096 Feb 23 2024 Public
drwxr-x 2 kali kali 4096 Feb 23 2024 Templates
drwxr-x 2 kali kali 4096 Feb 23 2024 Videos
-r--r-- 1 kali kali 0 Jul 23 17:07 compito.doc
drwxr-x 2 kali kali 4096 Jul 23 16:32 dos
-r--r-- 1 kali kali 0 Jul 23 16:54 relazione.doc
drwxr-x 4 kali kali 4096 Jul 23 17:19 studenti
drwxr-x 2 kali kali 4096 Jul 23 16:36 windows

(kali㉿kali2023)[:-]
ls -l studenti
total 8
drwxr-x 3 kali kali 4096 Jul 23 16:47 matteo
drwxr-x 4 kali kali 4096 Jul 23 16:45 nicola

(kali㉿kali2023)[:-]
echo "pace massimiliano epicode 28225"
pace massimiliano epicode 28225

(kali㉿kali2023)[:-]
echo "pace massimiliano epicode 28225"

(kali㉿kali2023)[:-]
nano pippo.txt

(kali㉿kali2023)[:-]
ls pippo.txt
so.txt

(kali㉿kali2023)[:-]
ls -l pippo.txt
-r--r-- 1 kali kali 31 Jul 23 17:24 pippo.txt

(kali㉿kali2023)[:-]
cat pippo.txt
pace massimiliano epicode 28225

(kali㉿kali2023)[:-]
rm -r studenti/matteo/amici

(kali㉿kali2023)[:-]
ls studenti/matteo

(kali㉿kali2023)[:-]
```

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```
(kali㉿kali2023) ~ [~] $ rm -r studenti/matteo/amici  
(kali㉿kali2023) ~ [~] $ ls studenti/matteo  
(kali㉿kali2023) ~ [~] $ rm -r studenti  
(kali㉿kali2023) ~ [~] $ rm -r windows  
(kali㉿kali2023) ~ [~] $ rm -r dos  
(kali㉿kali2023) ~ [~] $ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos compito.doc pippo.txt relazione.doc  
(kali㉿kali2023) ~ [~] $ rm compito.doc  
(kali㉿kali2023) ~ [~] $ rm pippo.txt  
(kali㉿kali2023) ~ [~] $ rm relazione.doc  
rm: cannot remove 'relazione.doc': No such file or directory  
(kali㉿kali2023) ~ [~] $ rm relazione.doc  
(kali㉿kali2023) ~ [~] $ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
(kali㉿kali2023) ~ [~] $ ls -a  
.. .Xauthority .bashrc .Xconfig .face.icon .local .profile .xsession-errors .zsh_history Documents Pictures Videos  
. .anna .bashrc.original .Xmpc .gnupg .mozilla .sudo_as_admin_successful .xsession-errors.old .zshrc Downloads Public  
.ICEauthority .bash_logout .cache .face .java .msf4 .viminfo .xsessionrc Desktop Music Templates  
(kali㉿kali2023) ~ [~] $ rm -r .anna  
rm: failed to remove '.anna': Directory not empty  
(kali㉿kali2023) ~ [~] $ rm -r .anna  
(kali㉿kali2023) ~ [~] $
```

# Descrizione esercizio:

Data la complessità nel dover descrivere ogni singolo passaggio, ho optato per la visualizzazione con 15 screenshot e una descrizione finale che spieghi ciò che è stato fatto e i comandi che sono stati utilizzati per completare l'esercizio.

Partendo dalla nostra Home andremo a creare col comando MKDIR le nostre directory.

Dos , studenti, windows , tmp

All'interno di Studenti andremo a inserire le cartelle Nicola , Anna , Matteo. Il comando utilizzato per inserire delle directory all'interno di altre sarà sempre MKDIR (make directory) esempio : per inserire la cartella Nicola in studenti procederemo come segue: mkdir studenti/nicola se vogliamo inserire una cartella Scuola all'interno di Nicola useremo la stessa logica :

mkdir studenti/nicola/scuola . Per visionare le directory utilizzeremo il comando ls (serve ad elencare il contenuto di una directory) il comando ls sarà molto utile in seguito per ottenere informazioni più dettagliate, come i permessi la visualizzazione dei file compresi quelli nascosti.

L'esercizio ci richiede di creare dei file doc da inserire nella cartella Scuola. Per la creazione di file doc utilizzeremo il comando touch seguito dalle directory di dove si vuole inserire il file e dal nome del file che si vuole creare. Nel nostro caso creeremo 2 file all'interno di scuola : relazione.doc e compito.doc un terzo file lo creeremo all'interno della dir. tmp chiamato risultati.doc (foto 6)

L'esercizio ci chiede di copiare il file compito.doc nella directory home e di spostare relazione.doc sempre in home (foto 7/8/9)

Cancelleremo la directory TMP utilizzando il comando rm per cancellare il file risultati.doc e poi rmdir per cancellare la directory tmp. (Foto 10) Non si può utilizzare rmdir per cancellare directory che contengono file al proprio interno.

Sempre utilizzando il comando Touch creeremo un file txt chiamato Pippo (foto 11) il file sarà scrivibile e leggibile dal proprietario dagli altri sarà solo leggibile, per farlo utilizzeremo il comando chmod 644 studenti/nicola/lavoro/pippo.txt

Con ls -l riusciremo a vedere i permessi impostati.

Ora, nasconderemo la directory Anna utilizzando il comando mv seguito dalla directory e dal nome preceduto da un punto.

```
mv studenti/anna .anna
```

Ora dovremmo utilizzare il comando ls -a per visualizzare la directory nascosta perché ls non riuscirà più a visualizzarla. (Foto 12)

Utilizzando il comando nano pippo.txt potremmo scrivere il nostro file text, con cat pippo.txt ci verrà mostrato il contenuto del file scritto in precedenza. (Foto 13 / 14)

Ora come richiede l'esercizio andremo a cancellare tutte le directory utilizzando rm e rm -r (foto 15)

CONCLUSIONI: shell è estremamente potente e flessibile per gestione avanzate del sistema, per ora da neofita posso dire che non risulta ancora intuitiva. Ma immagino che riuscendo ad apprendere vari comandi si possano aprire scenari futuri impensabili al momento.

# ESERCIZIO FACOLTATIVO

```
kali@kali2023:~
```

File Actions Edit View Help

```
kali 40021 0.0 0.3 623676 14544 ? Ssl 17:46 0:00 /usr/libexec/xdg-desktop-portal
kali 40026 0.0 0.1 696484 6576 ? Ssl 17:46 0:00 /usr/libexec/xdg-document-portal
kali 50030 0.0 0.1 388648 5768 ? Ssl 17:46 0:00 /usr/libexec/xdg-permission-store
root 40037 0.0 0.0 2212 1208 ? Ssl 17:46 0:00 fusermount -o rw,nosuid,nodev,fsname=portal,auto_unmount,subtype=portal - - /run/user/1000/doc
kali 40066 0.0 0.5 410420 20528 ? Ssl 17:46 0:00 /usr/libexec/xdg-desktop-portal-gtk
root 40177 0.1 0.0 0 8 ? T 17:46 0:00 [kworker/0:1-events]
root 40191 0.0 0.2 125800 8932 ? Ssl 17:46 0:00 /usr/sbin/pcsd --foreground --auto-exit
root 41735 0.0 0.0 0 8 ? T 17:48 0:00 [kworker/0:3-events_unbound]
root 41736 0.0 0.0 0 8 ? I 17:48 0:00 [kworker/3:1-events]
root 41737 0.0 0.0 0 8 ? I 17:48 0:00 [kworker/2:1-events]
root 42523 0.0 0.0 0 8 ? I 17:49 0:00 [kworker/2:0]
kali 42619 4.1 7.9 2936672 319786 pts/1 Ssl 17:58 0:01 firefox-esr
kali 42700 0.0 0.9 216068 37168 pts/1 SNI 17:58 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -parentBuildID 20240115170312 -prefsLen 24686 -prefMapSize 235220
kali 42723 0.7 2.9 2643768 116820 pts/1 SNI 17:58 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 1 -isForBrowser -prefsLen 26747 -prefMapSize 235228 -jsIn
kali 42757 0.5 2.8 2451764 115928 pts/1 SNI 17:58 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 2 -isForBrowser -prefsLen 29581 -prefMapSize 235228 -jsIn
kali 42795 0.4 2.4 2435748 98132 pts/1 SNI 17:58 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 3 -isForBrowser -prefsLen 29581 -prefMapSize 235228 -jsIn
kali 42858 0.0 1.7 2400928 71320 pts/1 SNI 17:58 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 4 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 42861 0.0 1.7 2400928 71484 pts/1 SNI 17:58 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 5 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 42865 0.0 1.7 2400928 71080 pts/1 SNI 17:58 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 6 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 43380 0.0 0.0 7928 3504 pts/1 R+ 17:58 0:00 ps aux
```

```
(kali㉿kali2023) ~]$ kill 42619
Exiting due to channel error.
Exiting due to channel error.
Exiting due to channel error.
(kali㉿kali2023) ~]$ fg 42639
fg: job not found: 42619

(kali㉿kali2023) ~]$ df -h
Filesystem      Size   Used Avail Use% Mounted on
udev            1.9G    0  1.9G  0% /dev
tmpfs           392M  391M  13M  1% /run
/dev/vda1        62G  13G  46G  22% /
tmpfs           2.0G    0  2.0G  0% /dev/shm
tmpfs            5.0M    0  5.0M  0% /run/lock
efivars          256K  27K  230K  11% /sys/firmware/efi/efivars
/dev/vda1        512M  368K  512M  1% /boot/wifi
tmpfs           392M  120K  390M  1% /run/user/1000
(kali㉿kali2023) ~]$
```

1

```
kali@kali2023:~
```

File Actions Edit View Help  
KILL(1)

**NAME**  
kill - send a signal to a process

**SYNOPSIS**  
kill [options] <pid> [...]

**DESCRIPTION**  
The default signal for kill is TERM. Use -l or -L to list available signals. Particularly useful signals include HUP, INT, KILL, STOP, CONT, and Q. Alternate signals may be specified in three ways: -9, -SIGKILL or -KILL. Negative PID values may be used to choose whole process groups; see the PGID column in ps command output. A PID of -1 is special; it indicates all processes except the kill process itself and init.

**OPTIONS**  
**<pid> [...]** Send signal to every <pid> listed.  
**-<signal>**  
**-s <signals>**  
**--signal <signal>** Specify the signal to be sent. The signal can be specified by using name or number. The behavior of signals is explained in signal(7) manual page.  
**-q, --queue value** Use sigqueue(3) rather than kill(2) and the value argument is used to specify an integer to be sent with the signal. If the receiving process has installed a handler for this signal using the SA\_SIGINFO flag to sigaction(2), then it can obtain this data via the si\_value field of the siginfo\_t structure.  
**-l, --list [signal]** List signal names. This option has optional argument, which will convert signal number to signal name, or other way round.  
**-L, --table** List signal names in a nice table.

**NOTES** Your shell (command line interpreter) may have a built-in kill command. You may need to run the command described here as /bin/kill to solve the conflict.

**EXAMPLES**  
kill -9 -1  
Kill all processes you can kill.  
kill -l 11  
Translate number 11 into a signal name.  
kill -L  
List the available signal choices in a nice table.  
kill 123 543 2341 3453  
Send the default signal, SIGTERM, to all those processes.

**SEE ALSO**  
kill(2), killall(1), nice(1), pkill(1), renice(1), signal(7), sigqueue(3), kill(1)

Manual page Kill(1) line 1 (press h for help or q to quit)]

2

```
kali@kali2023:~
```

File Actions Edit View Help  
PS(1)

**NAME**  
ps - report a snapshot of the current processes.

**SYNOPSIS**  
ps [options]

**DESCRIPTION**  
ps displays information about a selection of the active processes. If you want a repetitive update of the selection and the displayed information, use top instead. This version of ps accepts several kinds of options:  
1. UNIX options, which may be grouped and must be preceded by a dash.  
2. BSD options, which may be grouped and must not be used with a dash.  
3. GNU long options, which are preceded by two dashes.  
Options of different types may be freely mixed, but conflicts can appear. There are some synonymous options, which are functionally identical, due to the many standards and ps implementations that this ps is compatible with.  
By default, ps selects all processes with the same effective user ID (euid-EUID) as the current user and associated with the same terminal as the invoker. It displays the process ID (pid-PID), the terminal associated with the process (tname-TTY), the cumulated CPU time in (DD-)hh:mm:ss format (time-TIME), and the executable name (cmd-CMD). Output is unsorted by default.  
The use of BSD-style options will add process state (stat-STAT) to the default display and show the command args (args-COMMAND) instead of the executable name. You can override this with the PS\_FORMAT environment variable. The use of BSD-style options will also change the process selection to include processes on other terminals (TTVs) that are owned by you; alternately, this may be described as setting the selection to be the set of all processes filtered to exclude processes owned by other users or not on a terminal. These effects are not considered when options are described as being "identical" below, so -W will be considered identical to Z and so on.  
Except as described below, process selection options are additive. The default selection is discarded, and then the selected processes are added to the set of processes to be displayed. A process will thus be shown if it meets any of the given selection criteria.

**EXAMPLES**  
To see every process on the system using standard syntax:  
ps -e  
ps -ef  
ps -ef  
ps -ely  
To see every process on the system using BSD syntax:  
ps ax  
ps axu  
To print a process tree:  
ps -ejH  
ps -ajf  
To get info about threads:  
ps -elf  
ps axms

Manual page ps(1) line 1 (press h for help or q to quit)]

3

File Actions Edit View Help

File System Home

```
pippo" [New]
```

0:0-1 All

4

File Actions Edit View Help

File System Home

```
kali@kali2023:~
```

```
ps aux | grep autoresize
```

5

File Actions Edit View Help

File System Home

```
kali@kali2023:~
```

```
ps aux | grep autoresize
```

6

File Actions Edit View Help

File System Home

```
kali@kali2023:~
```

```
ps aux | grep autoresize
```

7

File Actions Edit View Help

```

kali 1828 0.4 0.6 410802 27384 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-panel/wrapper-2.0 /usr/lib
kali 1829 0.0 1.0 537156 41268 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-panel/wrapper-2.0 /usr/lib
kali 1830 0.0 1.1 472988 45192 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-panel/wrapper-2.0 /usr/lib
kali 1831 0.0 0.9 486324 39428 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-panel/wrapper-2.0 /usr/lib
kali 1842 0.0 0.9 465606 39476 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-panel/wrapper-2.0 /usr/lib
kali 1866 0.0 1.1 474532 44288 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-notifyd/xfce4-notifyd
kali 1861 0.0 0.6 261856 16128 ? S+ 16:30 0:08 xfce4-power-manager --restart --sm-client-id 26e26ddbe-273
kali 1123 0.0 0.0 13144 1700 ? S+ 16:30 0:08 xcape -e Super_L_Control_L_Escape
kali 1136 0.0 1.1 627324 47532 ? S+ 16:30 0:08 mm-applet
kali 1148 0.0 0.5 266272 15488 ? S+ 16:30 0:08 /usr/libexec/polkit-mate-authentication-agent-1
kali 1142 0.0 1.2 451372 51088 ? S+ 16:30 0:08 /usr/bin/python3 /usr/bin/blueman-applet
kali 1144 0.0 0.1 238972 4992 ? S+ 16:30 0:08 /usr/libexec/dconf-service
kali 1147 0.0 0.5 336836 22616 ? S+ 16:30 0:08 light-locker
kali 1154 0.0 0.1 305760 5376 ? S+ 16:30 0:08 /usr/libexec/geoclue-2.0/demos/agent
kali 1157 0.0 0.2 924568 8528 ? S+ 16:30 0:08 xiced
kali 1166 0.0 0.5 345676 23672 ? S+ 16:30 0:08 /usr/bin/spice-vdagent
root 1178 0.0 0.1 16476 6668 ? S+ 16:30 0:08 /usr/sbin/spice-vdagentd
kali 1188 0.0 0.9 425436 13972 ? S+ 16:30 0:08 /usr/libexec/gvfs-udisks2-volume-monitor
colord 1192 0.0 0.3 316864 13284 ? S+ 16:30 0:08 /usr/libexec/colord
root 1201 0.0 0.3 473348 13056 ? S+ 16:30 0:08 /usr/libexec/udisks2/udisksd
kali 1217 0.0 0.1 205376 5584 ? S+ 16:30 0:08 /usr/libexec/gvfs-mpv-volume-monitor
kali 1286 0.0 0.1 384566 6912 ? S+ 16:30 0:08 /usr/libexec/gvfs-afc-volume-monitor
kali 1293 0.0 0.1 385176 5584 ? S+ 16:30 0:08 /usr/libexec/gvfs-goa-volume-monitor
kali 1298 0.0 0.1 306684 5768 ? S+ 16:30 0:08 /usr/libexec/gvfs-iphoto2-volume-monitor
kali 1318 0.0 0.2 531736 12012 ? S+ 16:30 0:08 /usr/libexec/gvfsd-trash --spawner :1.22 /org/gtk/gvfs/exec_spawner
kali 1326 0.0 0.1 231888 7284 ? S+ 16:30 0:08 /usr/libexec/gvfsd-metadata
kali 1368 0.0 0.1 64628 2996 ? S+ 16:30 0:08 /usr/libexec/bluetooth/hcid
kali 1397 0.0 0.0 4892 2688 ? S+ 16:30 0:08 xv -root event randr
kali 1398 0.0 0.0 3216 1488 ? S+ 16:30 0:08 grep --line-buffered subtype XRROutputChangeNotifyEvent
kali 1399 0.0 0.0 3216 384 ? S+ 16:30 0:08 /bin/sh /opt/bin/autoresize
root 21142 0.0 0.0 0 0 ? I 17:09 0:08 [kworker/1:0-cgroup_destroy]
root 23878 0.0 0.0 0 0 ? I 17:12 0:08 [kworker/3:0-inet_frag_wq]
root 28978 0.0 0.0 0 0 ? I 17:26 0:08 [kworker/0:0-events]
kali 32108 0.0 0.1 304920 7252 ? S+ 17:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4/xconf/xfconfd
root 34459 0.0 0.0 0 0 ? I 17:35 0:08 [kworker/0:1-events]
root 36461 0.0 0.0 0 0 ? I 17:39 0:08 [kworker/0:2-mm_percpu_wq]
root 37116 0.1 0.0 0 0 ? I 17:40 0:08 [kworker/0:2-events]
root 38988 0.0 0.0 0 0 ? I 17:42 0:08 [kworker/3:0-events]
kali 38118 0.0 0.2 522278 98584 ? S+ 17:42 0:08 /usr/bin/qterminal
kali 39113 0.0 0.1 7544 5224 pts/0 S+ 17:42 0:08 /usr/bin/zsh
root 38288 0.0 0.0 0 0 ? I 17:42 0:08 [kworker/0:0-flush-254:0]
kali 38782 0.0 0.2 12200 8956 pts/0 S+ 17:43 0:08 vi pippo
kali 38907 0.0 2.4 521956 98464 ? S+ 17:44 0:08 /usr/bin/qterminal
kali 39918 0.3 0.1 7544 5224 pts/1 S+ 17:44 0:08 /usr/bin/zsh
kali 39025 100 0.0 7928 3584 pts/1 R+ 17:44 0:08 ps aux

```

zsh: terminated vi pippo

```

(halil@kali2023)~] $ kill 38782
(halil@kali2023)~] $ 

```

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File Actions Edit View Help

```

kali 1842 0.0 0.9 465606 39476 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-panel/wrapper-2.0 /usr/lib
kali 1866 0.0 1.1 474532 44288 ? S+ 16:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4-notifyd
kali 1881 0.0 0.4 261856 16128 ? S+ 16:30 0:08 xfce4-power-manager --restart --sm-client-id 26e26ddbe-273
kali 1123 0.0 0.0 13144 1700 ? S+ 16:30 0:08 xcape -e Super_L_Control_L_Escape
kali 1136 0.0 1.1 627324 47532 ? S+ 16:30 0:08 nm-applet
kali 1148 0.0 0.1 672324 47532 ? S+ 16:30 0:08 /usr/libexec/polkit-mate-authentication-agent-1
kali 1157 0.0 0.2 924568 8528 ? S+ 16:30 0:08 xiced
kali 1166 0.0 0.5 345676 23672 ? S+ 16:30 0:08 /usr/libexec/gvfs-mpv-volume-monitor
root 1178 0.0 0.1 16476 6668 ? S+ 16:30 0:08 /usr/sbin/spice-vdagentd
kali 1188 0.0 0.9 425436 13972 ? S+ 16:30 0:08 /usr/libexec/gvfs-udisks2-volume-monitor
colord 1192 0.0 0.3 316864 13284 ? S+ 16:30 0:08 /usr/libexec/colord
root 1201 0.0 0.3 473348 13056 ? S+ 16:30 0:08 /usr/libexec/udisks2/udisksd
kali 1217 0.0 0.1 205376 5584 ? S+ 16:30 0:08 /usr/libexec/gvfs-mpv-volume-monitor
kali 1286 0.0 0.1 384566 6912 ? S+ 16:30 0:08 /usr/libexec/gvfs-afc-volume-monitor
kali 1293 0.0 0.1 385176 5584 ? S+ 16:30 0:08 /usr/libexec/gvfs-goa-volume-monitor
kali 1298 0.0 0.1 306684 5768 ? S+ 16:30 0:08 /usr/libexec/gvfs-iphoto2-volume-monitor
kali 1318 0.0 0.2 531736 12012 ? S+ 16:30 0:08 /usr/libexec/gvfsd-trash --spawner :1.22 /org/gtk/gvfs/exec_spawner
kali 1326 0.0 0.1 231888 7284 ? S+ 16:30 0:08 /usr/libexec/gvfsd-metadata
kali 1368 0.0 0.2 511736 12012 ? S+ 16:30 0:08 /usr/libexec/gvfs-mpv-volume-monitor
kali 1397 0.0 0.0 4892 2688 ? S+ 16:30 0:08 xv -root event randr
kali 1398 0.0 0.0 3216 1488 ? S+ 16:30 0:08 grep --line-buffered subtype XRROutputChangeNotifyEvent
kali 1399 0.0 0.0 3216 384 ? S+ 16:30 0:08 /bin/sh /opt/bin/autoresize
root 21142 0.0 0.0 0 0 ? I 17:09 0:08 [kworker/1:0-cgroup_destroy]
root 23878 0.0 0.0 0 0 ? I 17:12 0:08 [kworker/3:0-inet_frag_wq]
root 28978 0.0 0.0 0 0 ? I 17:26 0:08 [kworker/0:0-events]
kali 32108 0.0 0.1 304920 7252 ? S+ 17:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4/xconf/xfconfd
root 34459 0.0 0.0 0 0 ? I 17:35 0:08 [kworker/0:1-events]
root 36461 0.0 0.0 0 0 ? I 17:39 0:08 [kworker/0:2-mm_percpu_wq]
root 37116 0.1 0.0 0 0 ? I 17:40 0:08 [kworker/0:2-events]
root 38988 0.0 0.0 0 0 ? I 17:42 0:08 [kworker/3:0-events]
kali 38118 0.0 0.2 522278 98584 ? S+ 17:42 0:08 /usr/bin/qterminal
kali 39113 0.0 0.1 7544 5224 pts/0 S+ 17:42 0:08 /usr/bin/zsh
root 38288 0.0 0.0 0 0 ? I 17:42 0:08 [kworker/0:0-flush-254:0]
kali 38782 0.0 0.2 12200 8956 pts/0 S+ 17:43 0:08 vi pippo
kali 38907 0.0 2.4 521956 98464 ? S+ 17:44 0:08 /usr/bin/qterminal
kali 39918 0.3 0.1 7544 5224 pts/1 S+ 17:44 0:08 /usr/bin/zsh
kali 39025 100 0.0 7928 3584 pts/1 R+ 17:44 0:08 ps aux

```

(halil@kali2023)~] \$ kill 38782

(halil@kali2023)~] \$ firefox b

[1] 39974

(halil@kali2023)~] \$

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File Actions Edit View Help

```

kali 1136 0.0 1.1 627324 47532 ? S+ 16:30 0:08 mm-applet
kali 1142 0.0 1.2 451372 51088 ? S+ 16:30 0:08 /usr/bin/python3 /usr/bin/blueman-applet
kali 1146 0.0 0.1 238972 4992 ? S+ 16:30 0:08 /usr/libexec/dconf-service
kali 1147 0.0 0.5 336836 22616 ? S+ 16:30 0:08 light-locker
kali 1154 0.0 0.1 305760 5376 ? S+ 16:30 0:08 /usr/libexec/geoclue-2.0/demos/agent
kali 1157 0.0 0.2 924568 8528 ? S+ 16:30 0:08 xiced
kali 1164 0.0 0.5 345676 23672 ? S+ 16:30 0:08 /usr/bin/spice-vdagent
root 1178 0.0 0.1 16476 6668 ? S+ 16:30 0:08 /usr/bin/spice-vdagentd
kali 1188 0.0 0.9 425436 13972 ? S+ 16:30 0:08 /usr/libexec/gvfs-udisks2-volume-monitor
colord 1192 0.0 0.3 316864 13284 ? S+ 16:30 0:08 /usr/libexec/colord
root 1201 0.0 0.3 473348 13056 ? S+ 16:30 0:08 /usr/libexec/udisks2/udisksd
kali 1217 0.0 0.1 205376 5584 ? S+ 16:30 0:08 /usr/libexec/gvfs-mpv-volume-monitor
kali 1284 0.0 0.1 384566 6912 ? S+ 16:30 0:08 /usr/libexec/gvfs-afc-volume-monitor
kali 1293 0.0 0.1 305176 5584 ? S+ 16:30 0:08 /usr/libexec/gvfs-goa-volume-monitor
kali 1298 0.0 0.1 306684 5768 ? S+ 16:30 0:08 /usr/libexec/gvfs-iphoto2-volume-monitor
kali 1318 0.0 0.2 531736 12012 ? S+ 16:30 0:08 /usr/libexec/gvfsd-trash --spawner :1.22 /org/gtk/gvfs/exec_spawner
kali 1326 0.0 0.1 231888 7284 ? S+ 16:30 0:08 /usr/libexec/gvfsd-metadata
kali 1368 0.0 0.1 64628 7296 ? S+ 16:30 0:08 /usr/libexec/bluetooth/hcid
kali 1397 0.0 0.0 4892 2688 ? S+ 16:30 0:08 xv -root event randr
kali 1398 0.0 0.0 3216 1488 ? S+ 16:30 0:08 grep --line-buffered subtype XRROutputChangeNotifyEvent
kali 1399 0.0 0.0 3216 384 ? S+ 16:30 0:08 /bin/sh /opt/bin/autoresize
root 21142 0.0 0.0 0 0 ? I 17:09 0:08 [kworker/1:0-cgroup_destroy]
root 23878 0.0 0.0 0 0 ? I 17:12 0:08 [kworker/3:0-inet_frag_wq]
root 28978 0.0 0.0 0 0 ? I 17:26 0:08 [kworker/0:0-events]
kali 32108 0.0 0.1 304920 7252 ? S+ 17:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4/xconf/xfconfd
root 34459 0.0 0.0 0 0 ? I 17:35 0:08 [kworker/0:1-events]
root 36461 0.0 0.0 0 0 ? I 17:39 0:08 [kworker/0:2-mm_percpu_wq]
root 37116 0.1 0.0 0 0 ? I 17:40 0:08 [kworker/0:2-events]
root 38988 0.0 0.0 0 0 ? I 17:42 0:08 [kworker/3:0-events]
kali 38118 0.0 0.2 522278 98584 ? S+ 17:42 0:08 /usr/bin/qterminal
kali 39113 0.0 0.1 7544 5224 pts/0 S+ 17:42 0:08 /usr/bin/zsh
root 38288 0.0 0.0 0 0 ? I 17:42 0:08 [kworker/0:0-flush-254:0]
kali 38782 0.0 0.2 12200 8956 pts/0 S+ 17:43 0:08 vi pippo
kali 38907 0.0 2.4 521956 98464 ? S+ 17:44 0:08 /usr/bin/qterminal
kali 39918 0.3 0.1 7544 5224 pts/1 S+ 17:44 0:08 /usr/bin/zsh
kali 39025 100 0.0 7928 3584 pts/1 R+ 17:44 0:08 ps aux

```

(halil@kali2023)~] \$ kill 38782

(halil@kali2023)~] \$

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File Actions Edit View Help

```

kali 1144 0.0 0.1 230972 4992 ? S+ 16:30 0:08 /usr/libexec/dconf-service
kali 1167 0.0 0.5 339036 22616 ? S+ 16:30 0:08 light-locker
kali 1154 0.0 0.1 395760 5376 ? S+ 16:30 0:08 /usr/libexec/geoclue-2.0/demos/agent
kali 1157 0.0 0.2 924568 8528 ? S+ 16:30 0:08 xiced
kali 1164 0.0 0.5 345676 23672 ? S+ 16:30 0:08 /usr/bin/spice-vdagent
root 1178 0.0 0.1 16476 6668 ? S+ 16:30 0:08 /usr/libexec/gvfs-udisks2-volume-monitor
colord 1192 0.0 0.3 316864 13284 ? S+ 16:30 0:08 /usr/libexec/colord
root 1201 0.0 0.3 313546 13176 ? S+ 16:30 0:08 /usr/libexec/udisks2/udisksd
kali 1224 0.0 0.1 383376 5504 ? S+ 16:30 0:08 /usr/libexec/gvfs-mpv-volume-monitor
kali 1284 0.0 0.1 384566 6912 ? S+ 16:30 0:08 /usr/libexec/gvfs-afc-volume-monitor
kali 1293 0.0 0.1 315476 5504 ? S+ 16:30 0:08 /usr/libexec/gvfs-goa-volume-monitor
kali 1298 0.0 0.1 451372 51088 ? S+ 16:30 0:08 /usr/libexec/gvfs-iphoto2-volume-monitor
kali 1318 0.0 0.2 531736 12012 ? S+ 16:30 0:08 /usr/libexec/gvfsd-trash --spawner :1.22 /org/gtk/gvfs/exec_spawner
kali 1326 0.0 0.1 231888 7284 ? S+ 16:30 0:08 /usr/libexec/gvfsd-metadata
kali 1368 0.0 0.1 531736 12012 ? S+ 16:30 0:08 /usr/libexec/gvfs-mpv-volume-monitor
kali 1397 0.0 0.0 4892 2688 ? S+ 16:30 0:08 xv -root event randr
kali 1398 0.0 0.0 3216 1488 ? S+ 16:30 0:08 grep --line-buffered subtype XRROutputChangeNotifyEvent
kali 1399 0.0 0.0 3216 384 ? S+ 16:30 0:08 /bin/sh /opt/bin/autoresize
root 21142 0.0 0.0 0 0 ? I 17:09 0:08 [kworker/1:0-cgroup_destroy]
root 23878 0.0 0.0 0 0 ? I 17:12 0:08 [kworker/3:0-inet_frag_wq]
root 28978 0.0 0.0 0 0 ? I 17:26 0:08 [kworker/0:0-events]
kali 32108 0.0 0.1 304920 7252 ? S+ 17:30 0:08 /usr/lib/aarch64-linux-gnu/xfce4/xconf/xfconfd
root 34459 0.0 0.0 0 0 ? I 17:35 0:08 [kworker/0:1-events]
root 36461 0.0 0.0 0 0 ? I 17:39 0:08 [kworker/0:2-mm_percpu_wq]
root 37116 0.1 0.0 0 0 ? I 17:40 0:08 [kworker/0:2-events]
root 38988 0.0 0.0 0 0 ? I 17:42 0:08 [kworker/3:0-events]
kali 38118 0.0 0.2 522278 98584 ? S+ 17:42 0:08 /usr/bin/qterminal
kali 39113 0.0 0
```

kali@kali2023: ~

```

File Actions Edit View Help
kali 1144 0.0 0.1 230972 4992 ? Ssl 16:30 0:00 /usr/libexec/dconf-service
kali 1147 0.0 0.5 339836 22616 ? SL 16:30 0:00 light-locker
kali 1154 0.0 0.1 305760 5376 ? SL 16:30 0:00 /usr/libexec/geoclue-2.0/demos/agent
kali 1157 0.0 0.2 924560 8528 ? SL 16:30 0:00 xiced
kali 1164 0.0 0.5 345876 23872 ? Ssl 16:30 0:00 /usr/bin/spice-vdagent
root 1178 0.0 0.1 161676 6660 ? Ssl 16:30 0:01 /usr/sbin/spice-vdagentd
color 1188 0.0 0.3 425436 13972 ? Ssl 16:30 0:00 /usr/libexec/gvfs-udisks2-volume-monitor
root 1192 0.0 0.3 316864 13284 ? Ssl 16:30 0:00 /usr/libexec/gvfs-udisks2
root 1201 0.0 0.3 473340 13176 ? Ssl 16:30 0:00 /usr/libexec/udisks2/udisksd
kali 1274 0.0 0.1 305376 5504 ? Ssl 16:30 0:00 /usr/libexec/gvfs-mtp-volume-monitor
kali 1284 0.0 0.1 384456 6912 ? Ssl 16:30 0:00 /usr/libexec/gvfs-arc-volume-monitor
kali 1293 0.0 0.1 305176 5504 ? Ssl 16:30 0:00 /usr/libexec/gvfs-goa-volume-monitor
kali 1298 0.0 0.1 306684 5760 ? Ssl 16:30 0:00 /usr/libexec/gvfs-gphoto2-volume-monitor
kali 1318 0.0 0.2 531736 12012 ? SI 16:30 0:00 /usr/libexec/gvfsd-trash --spawner :1.22 /org/gtk/gvfs/exec_spaw/0
kali 1326 0.0 0.1 231888 7284 ? Ssl 16:30 0:00 /usr/libexec/gvfsd-metadata
kali 1368 0.0 0.1 49428 7296 ? Ssl 16:30 0:00 /usr/libexec/bluetooth/obexd
kali 1397 0.0 0.0 4892 2688 ? S 16:30 0:00 xev -root -event randr
kali 1398 0.0 0.0 3216 1408 ? S 16:30 0:00 grep --line-buffered subtype XRROutputChangeNotifyEvent
kali 1399 0.0 0.0 2316 384 ? S 16:30 0:00 /bin/sh /opt/bin/autoresize
root 21142 0.0 0.0 0 0 ? I 17:09 0:00 [kworker/1:0-cgroup_destroy]
root 28978 0.0 0.0 0 0 ? I 17:24 0:00 [kworker/0:0-events]
kali 32108 0.0 0.1 304920 7252 ? SL 17:30 0:00 /usr/lib/arch64-linux-gnu/xfce4/xfconf/xfconfd
root 36401 0.0 0.0 0 0 ? I 17:39 0:00 [kworker/2:2-inet_frag_wq]
root 37116 0.1 0.0 0 0 ? I 17:40 0:00 [kworker/0:2-events]
root 40177 0.1 0.0 0 0 ? I 17:46 0:00 [kworker/0:1-events]
root 40191 0.0 0.2 325880 8932 ? Ssl 17:46 0:00 /usr/sbin/pcscd --foreground --auto-exit
root 41735 0.0 0.0 0 0 ? I 17:48 0:00 [kworker/0:3-events_unbound]
root 41736 0.0 0.0 0 0 ? I 17:48 0:00 [kworker/3:1-events]
root 41737 0.0 0.0 0 0 ? I 17:48 0:00 [kworker/2:1-events]
root 42523 0.0 0.0 0 0 ? I 17:49 0:00 [kworker/2:3]
kali 42619 4.1 7.9 2956672 319784 pts/1 SNl 17:50 0:01 firefox-esr
kali 42700 0.0 0.9 216068 37148 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -parentBuildID 20240115170312 -prefsLen 24606 -prefMapSize 235228
kali 42723 0.7 2.9 2443768 118820 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 1 -isForBrowser -prefsLen 24747 -prefMapSize 235228 -jsIn
kali 42757 0.5 2.8 2451764 113928 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 2 -isForBrowser -prefsLen 29881 -prefMapSize 235228 -jsIn
kali 42795 0.4 2.4 2435748 98132 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 3 -isForBrowser -prefsLen 29881 -prefMapSize 235228 -jsIn
kali 42858 0.0 1.7 2408928 75320 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 4 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 42861 0.0 1.7 2408928 71464 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 5 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 42865 0.0 1.7 2408928 71080 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 6 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 43300 0.0 0.0 7928 3584 pts/1 R+ 17:50 0:00 ps aux

```

12

## SPIEGAZIONE E ESECUZIONE

In questa esercitazione ci viene chiesto di leggere i manuali di job ps e kill, utilizzando il comando man.

Note : sono riuscito a visualizzare il manuale ps e kill ma il manuale job non risulta presente. (Foto 1/2/3)

kali@kali2023: ~

```

File Actions Edit View Help
kali 1397 0.0 0.0 4892 2688 ? S 16:30 0:00 xev -root -event randr
kali 1398 0.0 0.0 3216 1408 ? S 16:30 0:00 grep --line-buffered subtype XRROutputChangeNotifyEvent
kali 1399 0.0 0.0 2316 384 ? S 16:30 0:00 /bin/sh /opt/bin/autoresize
root 21142 0.0 0.0 0 0 ? I 17:09 0:00 [kworker/1:0-cgroup_destroy]
root 28978 0.0 0.0 0 0 ? I 17:24 0:00 [kworker/0:0-events]
kali 32108 0.0 0.1 304920 7252 ? SL 17:30 0:00 /usr/lib/arch64-linux-gnu/xfce4/xfconf/xfconfd
root 36401 0.0 0.0 0 0 ? I 17:39 0:00 [kworker/2:2-inet_frag_wq]
root 37116 0.1 0.0 0 0 ? I 17:40 0:00 [kworker/0:2-events]
root 38098 0.0 0.0 0 0 ? I 17:42 0:00 [kworker/3:0-inet_frag_wq]
root 38240 0.0 0.0 0 0 ? I 17:42 0:00 [kworker/0:8-flush-254:0]
kali 38907 0.6 2.4 522232 98884 ? RL 17:44 0:02 /usr/bin/qterminal
kali 38910 0.1 7.9 2956672 319784 pts/1 Ss 17:44 0:00 /usr/bin/zsh
kali 40021 0.0 0.3 621676 14544 ? Ssl 17:46 0:00 /usr/libexec/xdg-desktop-portal
kali 40026 0.0 0.1 606484 6576 ? Ssl 17:46 0:00 /usr/libexec/xdg-document-portal
kali 40030 0.0 0.1 308848 5760 ? Ssl 17:46 0:00 /usr/libexec/xdg-permission-store
root 40037 0.0 0.0 2712 1280 ? Ss 17:46 0:00 fusermount3 -o rw,nosuid,nodev,fsname=portal,auto_unmount,subtype=portal -- /run/user/1000/doc
Kali 40040 0.0 0.5 410420 20528 ? Ssl 17:46 0:00 /usr/libexec/xdg-desktop-portal-gtk
root 40177 0.1 0.0 0 0 ? I 17:46 0:00 [kworker/0:1-events]
root 40191 0.0 0.2 325880 8932 ? Ssl 17:46 0:00 /usr/sbin/pcscd --foreground --auto-exit
root 41735 0.0 0.0 0 0 ? I 17:48 0:00 [kworker/0:3-events_unbound]
root 41736 0.0 0.0 0 0 ? I 17:48 0:00 [kworker/3:1-events]
root 41737 0.0 0.0 0 0 ? I 17:48 0:00 [kworker/2:1-events]
root 42523 0.0 0.0 0 0 ? I 17:49 0:00 [kworker/2:3]
kali 42619 4.1 7.9 2956672 319784 pts/1 SNl 17:50 0:01 firefox-esr
kali 42700 0.0 0.9 216068 37148 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -parentBuildID 20240115170312 -prefsLen 24606 -prefMapSize 235228
kali 42723 0.7 2.9 2443768 118820 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 1 -isForBrowser -prefsLen 24747 -prefMapSize 235228 -jsIn
kali 42757 0.5 2.8 2451764 113928 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 2 -isForBrowser -prefsLen 29881 -prefMapSize 235228 -jsIn
kali 42795 0.4 2.4 2435748 98132 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 3 -isForBrowser -prefsLen 29881 -prefMapSize 235228 -jsIn
kali 42858 0.0 1.7 2408928 75320 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 4 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 42861 0.0 1.7 2408928 71464 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 5 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 42865 0.0 1.7 2408928 71080 pts/1 SNl 17:50 0:00 /usr/lib/firefox-esr/firefox-esr -contentproc -childID 6 -isForBrowser -prefsLen 26074 -prefMapSize 235228 -jsIn
kali 43300 0.0 0.0 7928 3584 pts/1 R+ 17:50 0:00 ps aux

```

(kali@kali2023) [~]

```

$ kill 42619

```

Exiting due to channel error.

(kali@kali2023) [~]

```

$ kill 42619

```

Exiting due to channel error.

(kali@kali2023) [~]

```

$ fg 42619

```

fg: job not found: 42619

(kali@kali2023) [~]

```

$ 

```

13

Lanciamo il comando vi pippo che aprirà l' editor per creare o modificare il file chiamato pippo. (Foto 4)

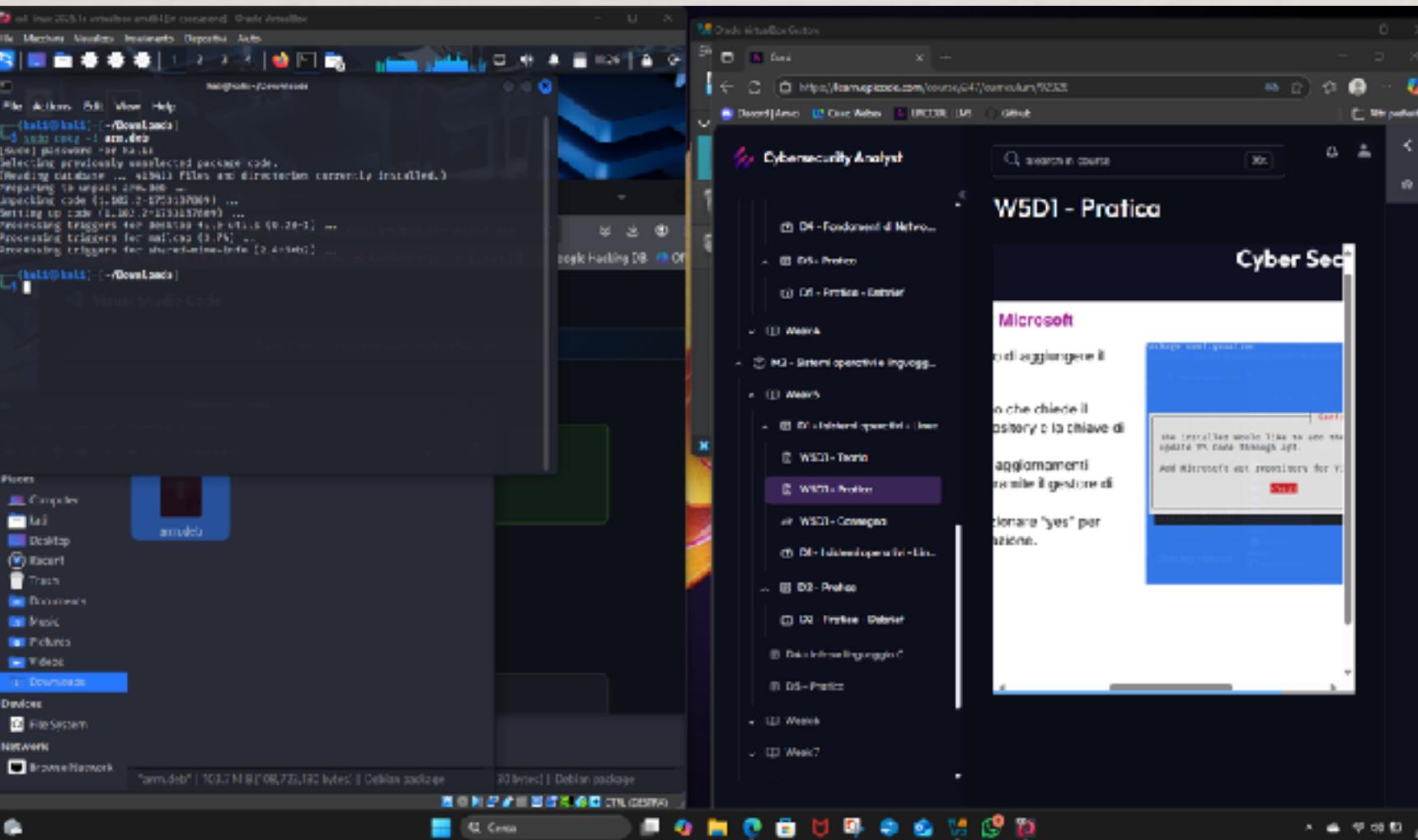
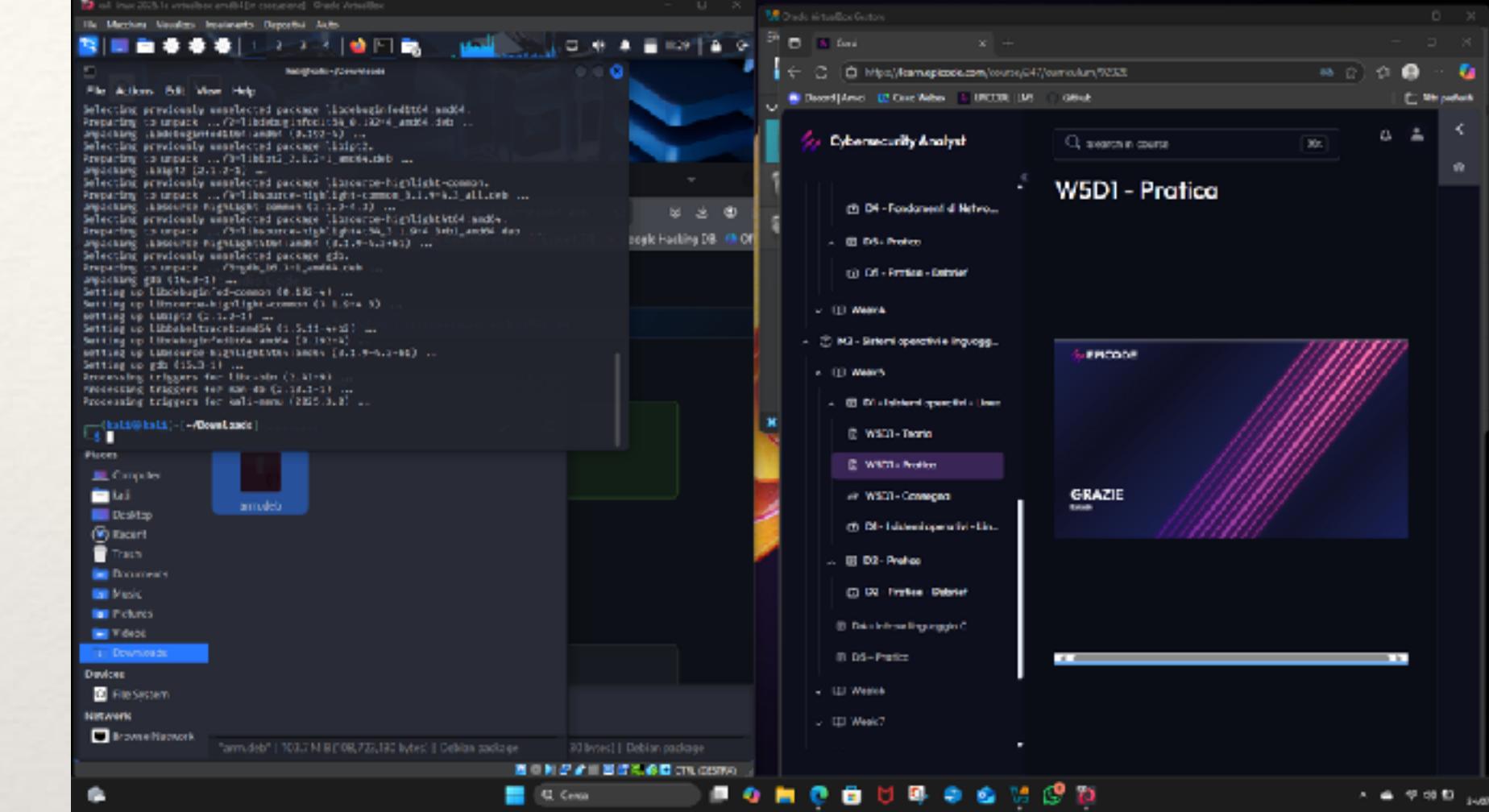
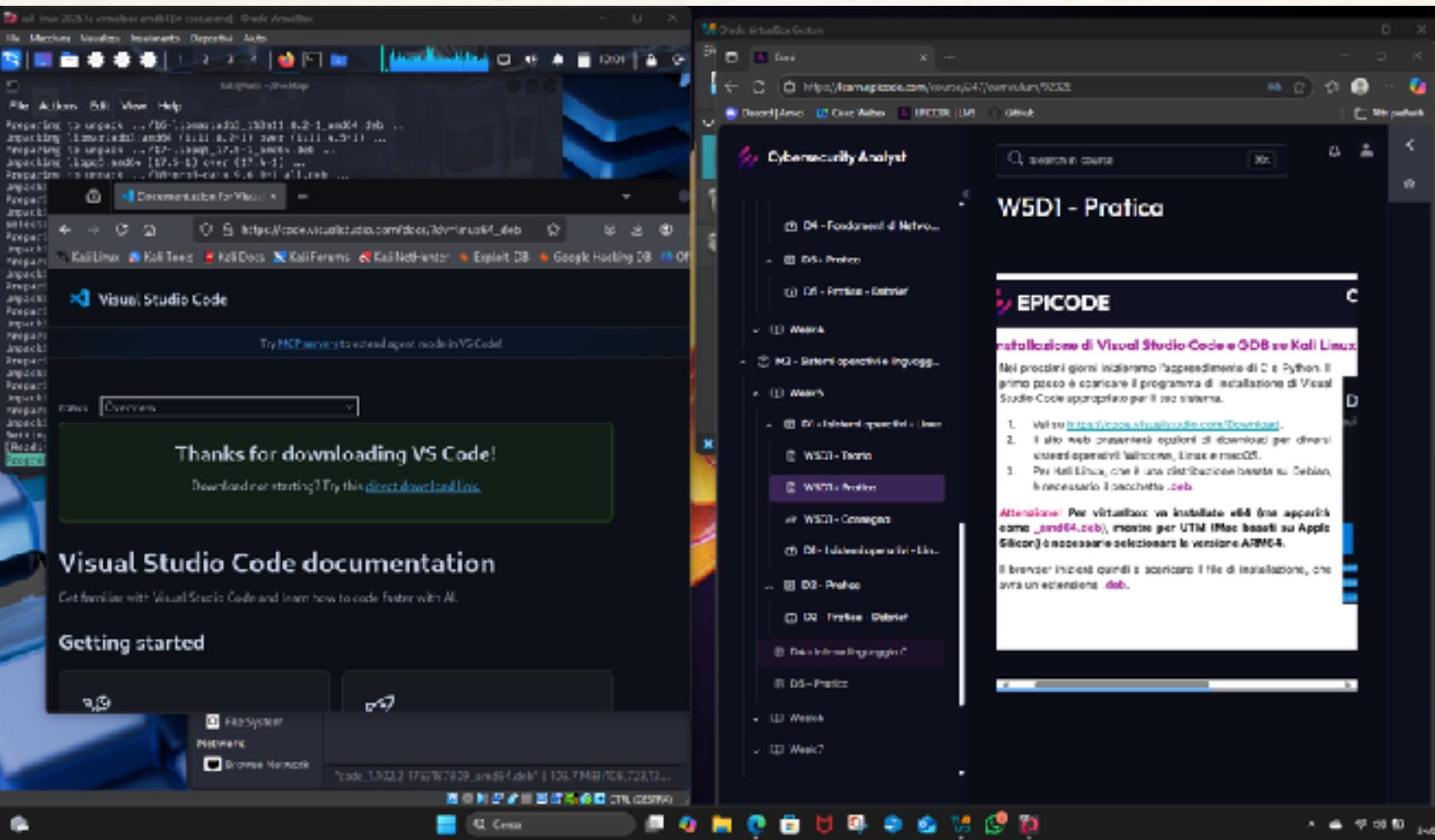
Utilizzando ps lux in un altro terminale otterremo la lista di tutti i processi in esecuzione a noi interessa il processo pid. (Foto 5 / 6)

Ora termineremo il processo vi precedentemente visualizzato utilizzando il comando kill seguito dal pid associato a vi. Nel nostro caso kill 38782 (foto 7)

Ora aprire firefox in backg. Digitando firefox & . Termineremo il processo firefox utilizzando ps lux per conoscere il suo pid e kill per terminare il processo

Verificheremo lo spazio col comando df -h .

# esercizio extra: installazione code Visual Studio. Scaricare il file del dal sito [codeVisualstudio.com](http://codeVisualstudio.com)



Installazione tramite comando `sudo dpkg -i`

Installazione debugger `gdb` tramite comando  
 `sudo apt update && sudo apt install gdb.`