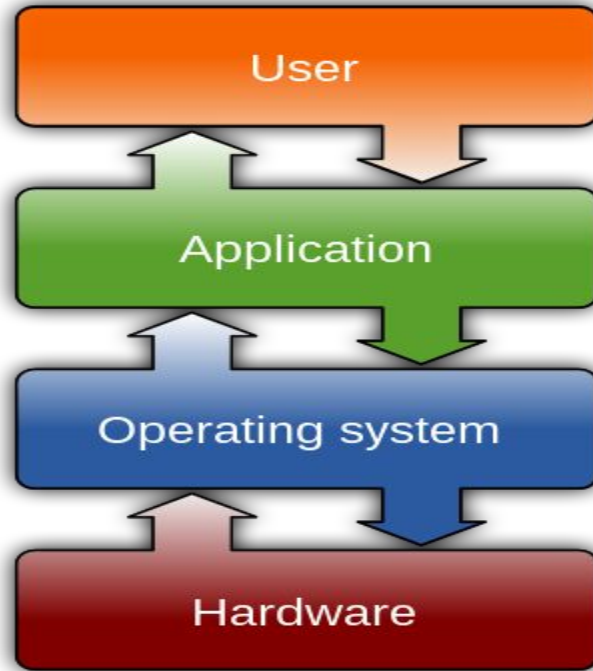


Introduction to Linux

Boussebha Wassim Abdessamed

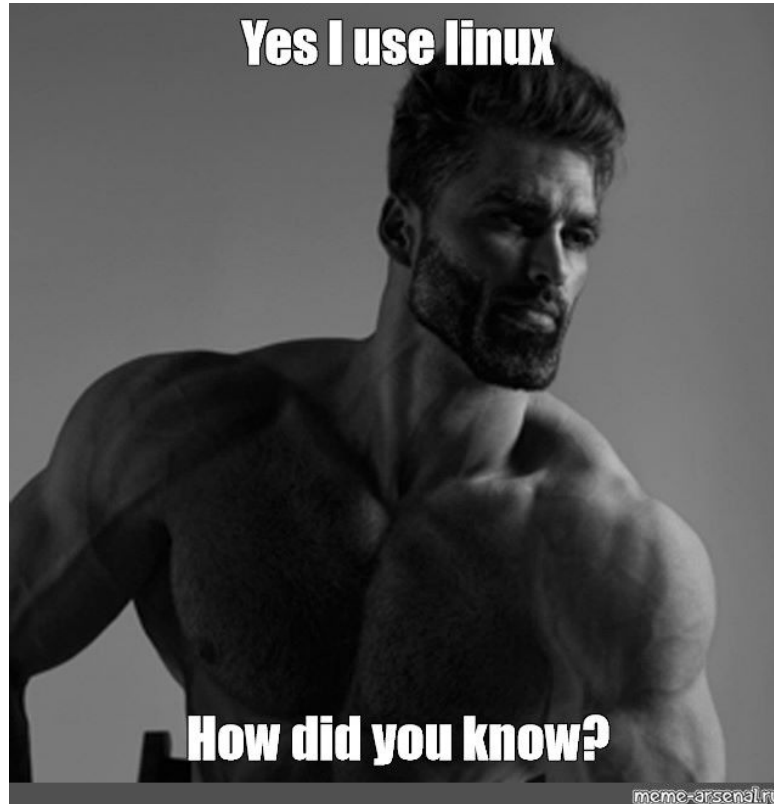
First of all what is an operating system ?



Is Linux actually an operating system ?

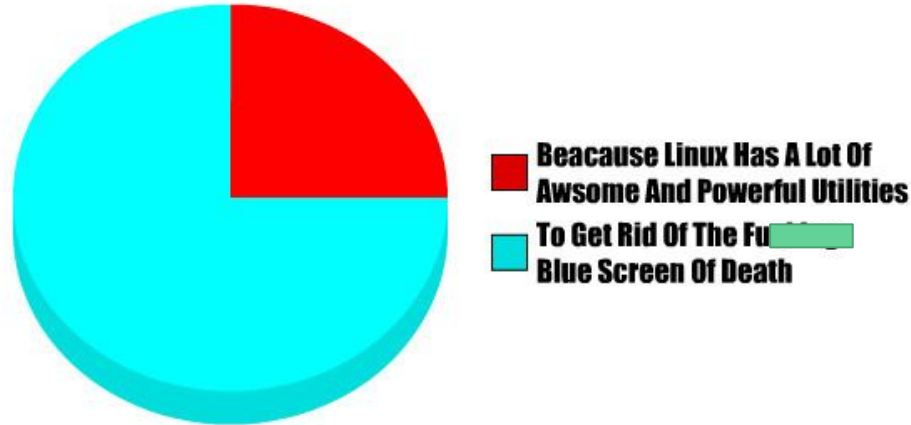


Why the heck i should use GNU\Linux ?

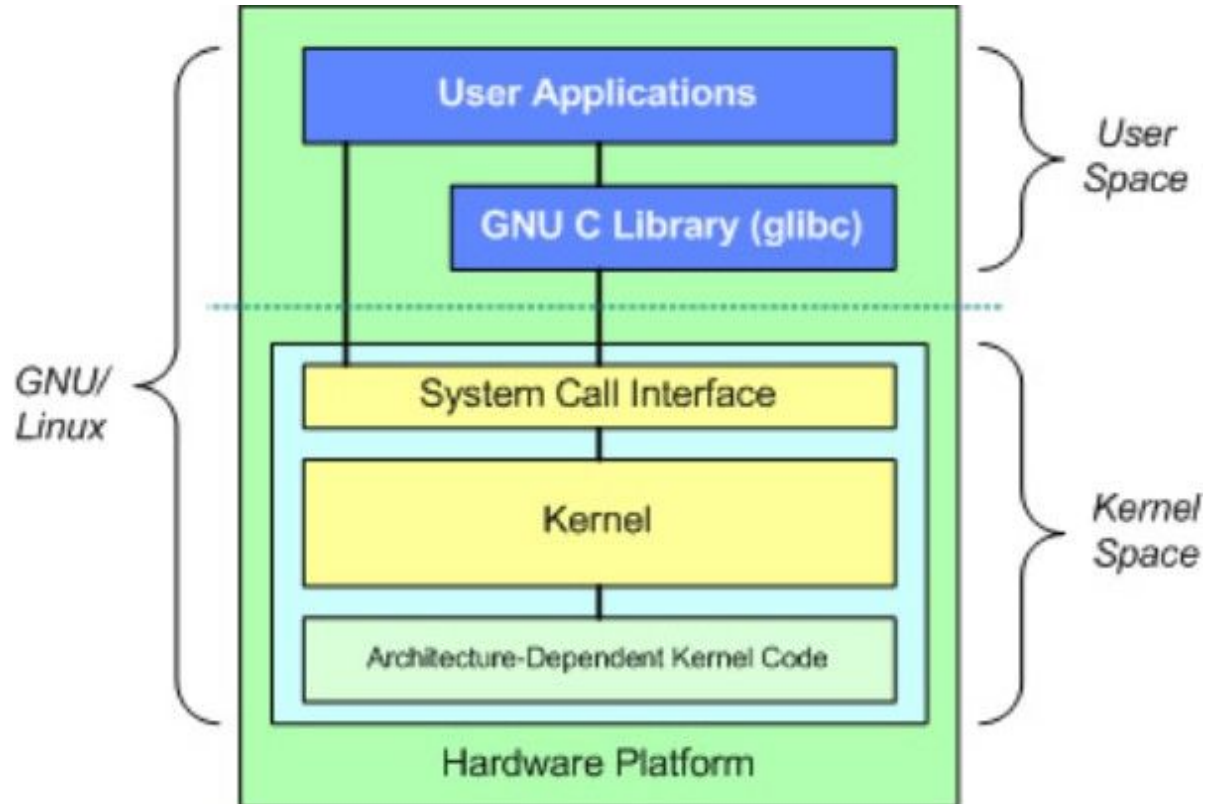


Why the heck i should use Linux ?

Why You Should Change From Windows To Linux

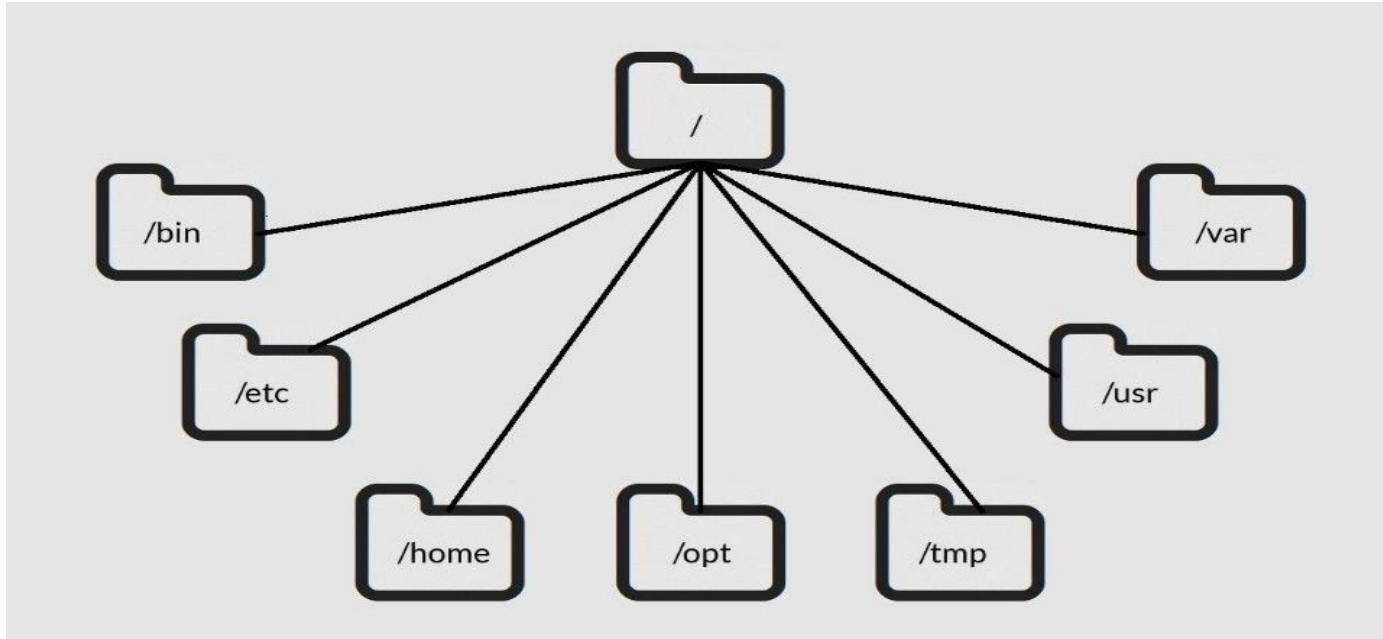


GNU\LINUX Components :



Linux File hierarchy:

The Linux File Hierarchy Standard (FHS) defines the directory structure and organization of files on a Linux system.



What the heck is a shell-bash , terminal , CLI ...?

**25 y/o me copying files on
my computer using the
command line just to look
cool in front of my family:**



Shell commands , What they are , and how they work ?

- **Ps** : lists the processes currently working in the system simultaneously

How it works ?

- **Pwd** : it prints the current directory we're working in

```
#include <linux/sched.h>

struct task_struct *current_task = get_current(); // Get pointer to current process's task_
struct path current_directory = current_task->fs->pwd; // Get the current working directory
```

Files permissions :

| Linux File Permissions

 blog.bytebytego.com

Binary	Octal	String Representation	Permissions
000	0 (0+0+0)	---	No Permission
001	1 (0+0+1)	--x	Execute
010	2 (0+2+0)	-w-	Write
011	3 (0+2+1)	-wx	Write + Execute
100	4 (4+0+0)	r--	Read
101	5 (4+0+1)	r-x	Read + Execute
110	6 (4+2+0)	rw-	Read + Write
111	7 (4+2+1)	rwX	Read + Write + Execute

Owner			Group			Other		
r	w	x	r	w	-	r	-	x
r			r			r		
w			w			-		
x			-			x		
r	Read	4	r	Read	4	r	Read	4
w	Write or Edit	2	w	Write or Edit	2	-	No Permission	0
x	Execute	1	-	No Permission	0	x	Execute	1
7			6			5		

Files permissions :

How to edit file permissions as a linux administrator using **CHMOD** command

```
-rwxr-x--- 1 user group 100 Apr 3 12:00 example.txt
```

```
user group others
```

Finally , it's just an introduction right ?
It's up to you to install Linux and use it

- How to install linux ? which distro i use ?
- how to put it in my machine ?
- need i to uninstall the nasty Windows (yeah) , but not necessary , you can dual boot