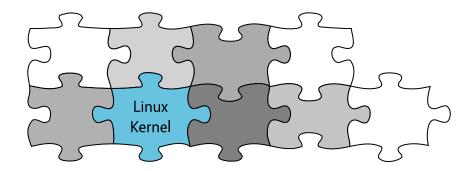


Linux, what does it mean?

► A Linux system is a system that uses the Linux Kernel.

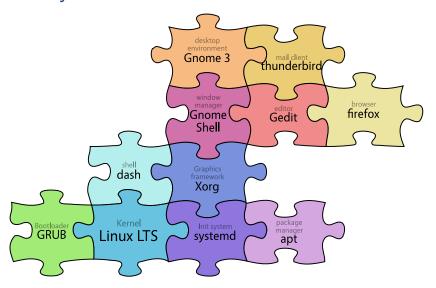


Kernel the core of your OS that manages all other programs and your devices

- Bootloader a tiny program that runs first when you power your PC and takes care of starting up the kernel
- Init system a program that takes care of starting and stopping background tasks
- Package manager a program that allows you to install other programs
- Graphics framework a basic software that allows other programs to draw stuff on the screen
- ► Shell the program that powers the console

- ► Desktop Environment and/or Window Manager
- ► Editor

- Browser
- Mail client



- ▶ Your best friend when it comes to dependency management
- Installs and removes software
- ► Updates all your programs with one click



Actual software

List of available software and dependency information

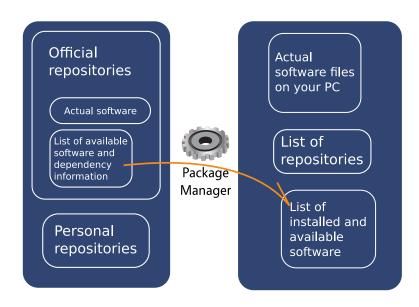
Personal repositories

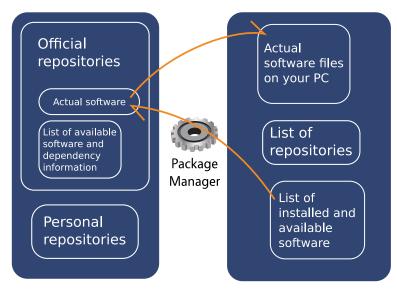


Package Manager Actual software files on your PC

List of repositories

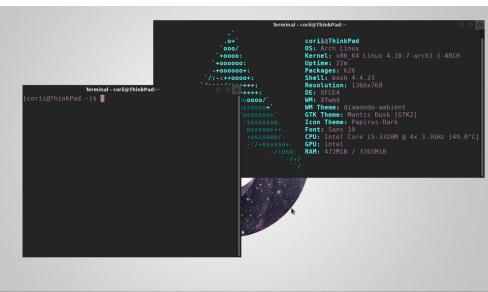
> List of installed and available software

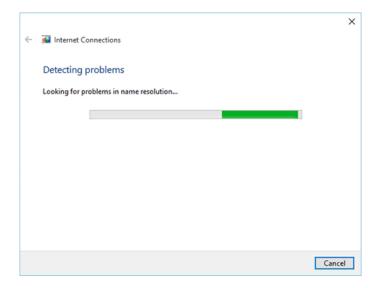




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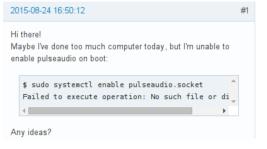
But now... why is Linux so cool?





```
sandro@linux-qttq:~> chromium
If 'chromium' is not a typo you can use
command-not-found to lookup the package
that contains it, like this:
    cnf chromium
sandro@linux-qttq:~> cnf chromium
The program 'chromium' can be found
in following packages:
[\ldots]
Try installing with:
    sudo zypper install chromium
```

Community support instead of expensive hotlines



bbs.archlinux.org



Do updates with ease

We've got an update for you

Windows is a service and updates are a normal part of keeping it running smoothly. We need your help installing this one.

Ready? Restart now. Not ready? Pick a time that works for you.

Restart now

Pick a time

Linux Concepts

Snooze

- Got to https://cocalc.com/doc/terminal.html
- Click Run Terminal Now
- ► Try out these top Linux commands https://www.hostinger.com/tutorials/linux-commands

```
~$ pwd
/home/user
~$ ls
'Welcome to CoCalc.term'
~$ echo "Hello World" > hello.txt
~$ ls
'Welcome to CoCalc.term'
                           hello.txt
~$ cat hello.txt
Hello World
~$ mkdir test dir
~$ ls
'Welcome to CoCalc.term'
                           hello.txt test dir
~$ mv hello.txt test dir/
~$ ls
'Welcome to CoCalc.term'
                           test dir
~$ cd test dir/
~/test dir$ ls
hello.txt
~/test dir$ cd
~$ 1s
'Welcome to CoCalc.term'
                          test dir
~$ rmtest dir/
bash: rmtest dir/: No such file or directory
~$ rm test dir/
rm: cannot remove 'test dir/': Is a directory
~$ rm -r test dir/
~$ ls
'Welcome to CoCalc.term'
```