

LA HISTORIA DE LOS SISTEMAS OPERATIVOS



Linux is Everywhere!

- Linux is everywhere, Linux jobs are everywhere, there is a shortage of Linux talent, and, Linux skills are in demand in just about every industry and job category on the planet.



Linux is a Kernel



- Linux means the *kernel* of the system, which is the central controller of everything that happens on the computer.
- Linux is a combination of software called **GNU/Linux**, which defines the *operating system*.
 - **GNU** is the *free software* that provides open source equivalents of many common UNIX commands.
 - The **Linux** part of this combination is the *Linux kernel*, which is the core of the operating system.
- The story of Linux begins with UNIX, an operating system developed at AT&T Bell Labs in the 1970s.
- UNIX is written in the C language.

Linux is a Kernel

- Linux started in 1991 as a hobby project by Linus Torvalds, a Finnish born computer scientist studying at the University of Helsinki.
- The **GNU Project** was developed Linux by Richard Stallman in 1983.
- Linux programmers were able to incorporate the GNU tools to provide a complete operating system.

Rol de Código Abierto



Linux Has Distributions

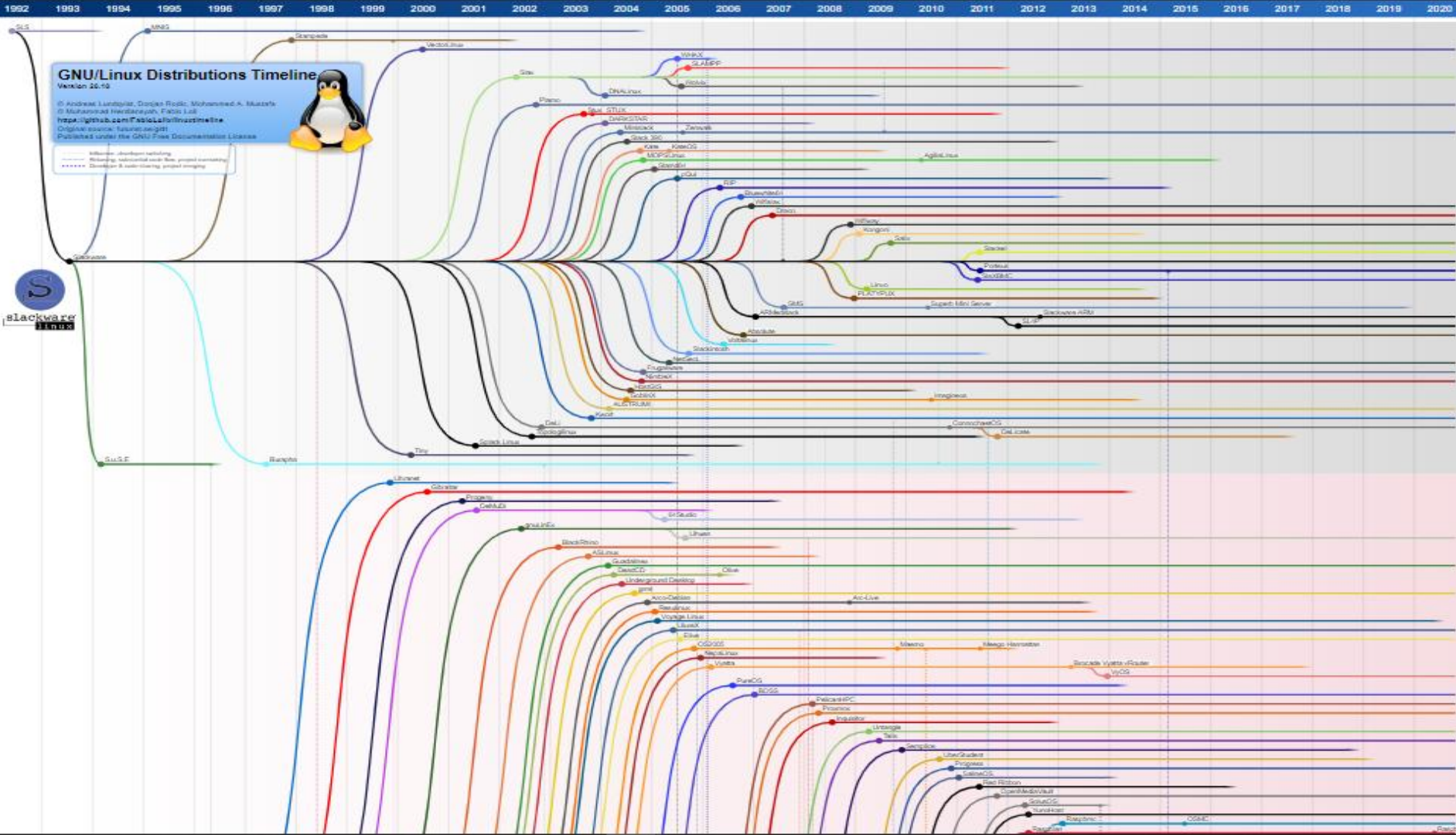
- *A distribution* refers to the Linux kernel, tools, and suite of applications that come bundled together.
- Take Linux and the GNU tools, add some user-facing applications like a web browser and an email client, and you have a full Linux system.
- There are distributions suited to every imaginable purpose.
- There are distributions that focus on running servers, desktops, or even industry-specific tools like electronics design or statistical computing.

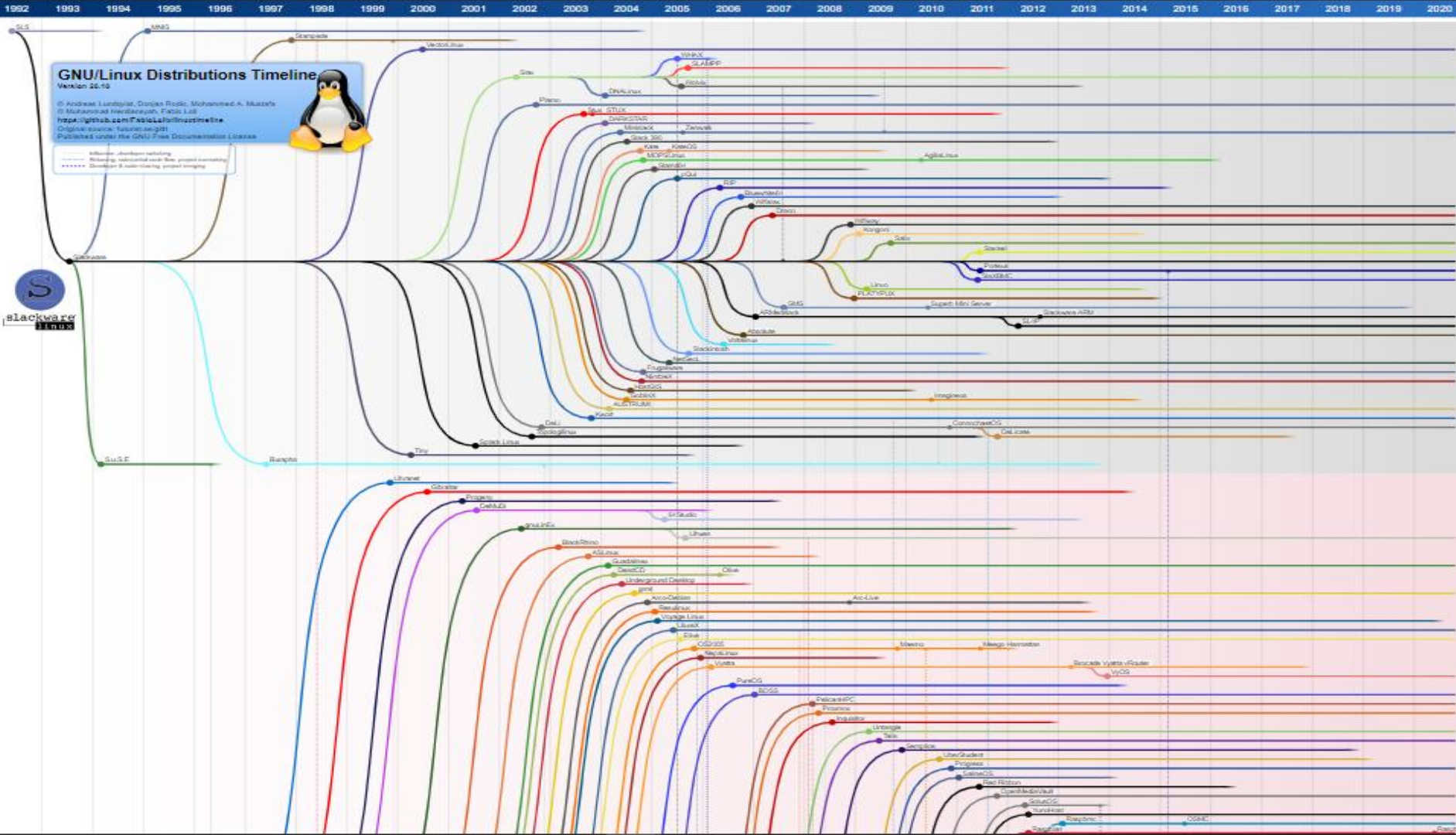
Actividad: Distribuciones de Linux



Seleccione 5 distribuciones de Linux y describa, ¿Cuál es el propósito de ese Sistema Operativo?







¿Qué es un Comando?

```
bash-2.05$ pwd
/home/rlrinc
bash-2.05$ cd /usr/share/doc/bash/shells/bash
bash-2.05$ ls -al
total 68
drwxr-xr-x  2 root root  4096 Aug 14 12:05
drwxr-xr-x 26 root root  4096 Aug 12 01:36
-rw-r--r--  1 root root 12116 Aug  3 22:05 Clumplog
-rw-r--r--  1 root root  2328 Aug 14 12:05 Read-Test
-rw-r--r--  1 root root  3728 Aug 14 12:05 bash-2.05c-rlrinc.sh
-rw-r--r--  1 root root  2634 Aug  2 20:05 bash-2.05c-rlrinc.sh.1a
-rw-r--r--  1 root root  5092 Aug  3 22:05 bash-2.0c-rlrinc.sh.1a
-rw-r--r--  1 root root  4938 Aug 14 12:05 bash-2.0c-rlrinc.sh.1a
-rw-r--r--  1 root root  2936 Aug 14 12:05 bash-2.0c-rlrinc.sh.1a
-rw-r--r--  1 root root  4562 Aug 29 21:11 bash-2.0c-rlrinc.sh.1a
drwxr-xr-x  2 root root  4096 Aug  3 22:25 Files
-rw-r--r--  1 root root 164 Dec 25 2003 setdata.sh
bash-2.05$ cat setdata.sh
#!/usr/bin/perl
(my $version="1.0", $encoding="utf-8")
@ARGV = ("setdata.sh", "http://www.gnu.org/dirs/setdata.sh");
my $url = $ARGV[0];
my $data = $ARGV[1];
my $url = $url;
my $data = $data;
bash-2.05$ sudo /etc/init.d/bluetooth status
Bluetooth:
 * status: stopped
bash-2.05$ ping -q -c 1 www.wikipedia.org
PING rr.wikipedia.org (187.142.131.247) 56(84) bytes of data:
 0: www.wikipedia.org ping statistics:
 1 packets: transmitted=1, received=0, packet loss, time 0ms
rtt min/avg/max/mdev = 112.076/112.076/112.076/0.000 ms
bash-2.05$ grep -r /dev/sda /etc/passwd | cat --fields=2
/dev/sda1      /etc/passwd
/dev/sda2      /etc/passwd
bash-2.05$ date
Wed Aug 25 11:36:16 PDT 2009
bash-2.05$ lsmod
Module                  Size  Used by
nfsd                   8224  0
rpc7200                175112  0
loop00011             85224  1 nfs7200
loop00011_00011       8522  2 nfs7200,loop00011
nfsd                   8224  0
bash-2.05$
```



Module 01

Introduction to Linux



¿POR QUÉ ES TAN IMPORTANTE LINUX?



SERVIDORES

Linux es la base de las empresas **más importantes** en aplicaciones nativas de la nube y contenedores.



DESARROLLO

Linux permite configurar con precisión el **aprovechamiento** de los recursos del sistema y hardware.



Linux es un sistema operativo Open Source, creado por **Linus Torvalds**. Este sistema es gratuito y puede ser ejecutado, modificado y compartido.



SEGURIDAD

Los sistemas Linux cuentan con gran compatibilidad con **herramientas** de seguridad y aceptación por la **comunidad** de esta disciplina.

DISTRIBUCIONES

Al ser un sistema operativo Open Source le ha permitido a cientos de comunidades crear sus propias distribuciones de Linux, como **Debian**, **Fedora** y **Ubuntu**.

Untitled 2 - LibreOffice Writer

File Edit View Insert Format Styles Table Form Tools Window Help

Text Body Liberation Seri 12

There are two basic types of interfaces available that allow you to interact with the operating system. The typical computer user today is most familiar with a *graphical user interface (GUI)*. In a GUI, applications present themselves in windows that can be resized and moved around. There are menus and tools to help users navigate to what they're searching for. Graphical applications include web browsers, graphics editing tools, and email to name a few. Below is an example of a graphical desktop, with a menu bar of popular applications to the left, a LibreOffice document being edited in the foreground, and a web browser in the background.

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Page 1 of 1 | 107 words, 646 characters | Default Style | English (USA) | 100%

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sysadmin@ubuntu:~\$

como se muestra en el siguiente grafico.

```
sysadmin@localhost:~$ alias mycal="cal 201
sysadmin@localhost:~$ mycal
```

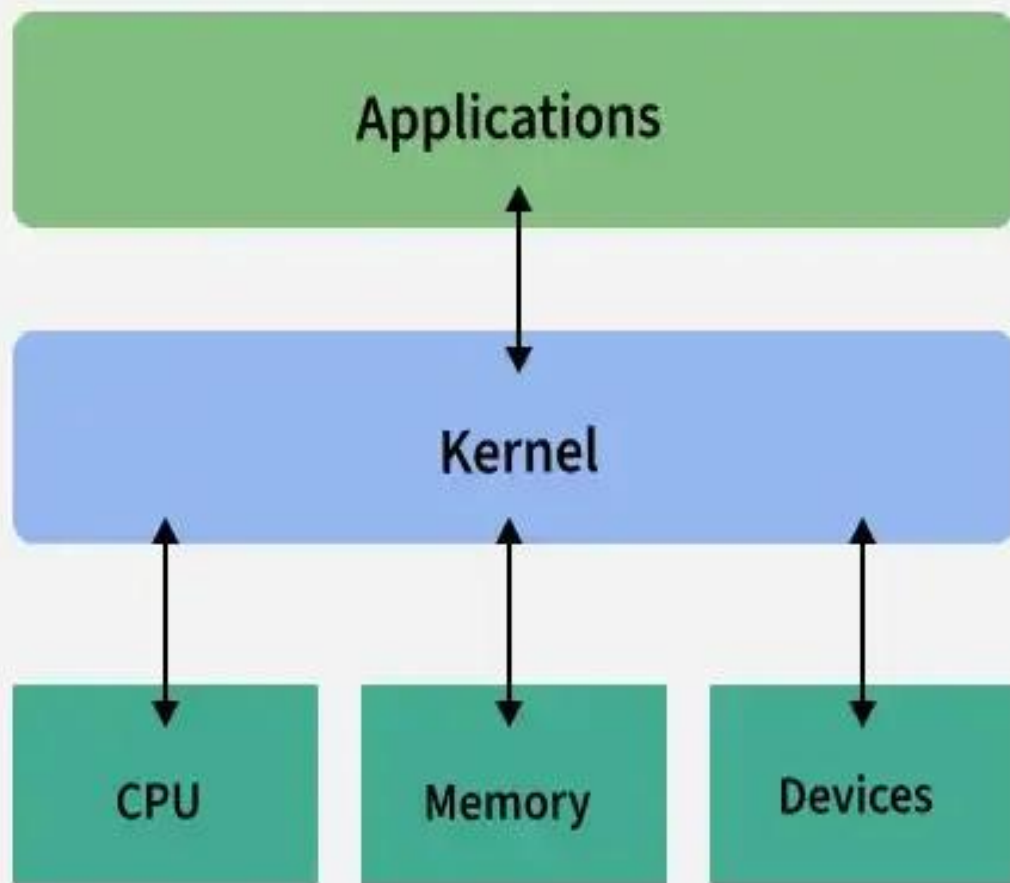
Enero							Febrero						
Do	Lu	Ma	Mi	Ju	Vi	Sá	Do	Lu	Ma	Mi	Ju	Vi	Sa
			1	2	3	4							1
5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28	

Abril							Mayo						
Do	Lu	Ma	Mi	Ju	Vi	Sá	Do	Lu	Ma	Mi	Ju	Vi	Sa
			1	2	3	4					1	2	3
6	7	8	9	10	11	12	4	5	6	7	8	9	10
13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30				25	26	27	28	29	30	31

Julio							Agosto						
Do	Lu	Ma	Mi	Ju	Vi	Sá	Do	Lu	Ma	Mi	Ju	Vi	Sa

```
sysadmin@localhost:~$ CAL
-bash: CAL: command not found
sysadmin@localhost:~$ cal
      July 2021
Su Mo Tu We Th Fr Sa
                1  2  3
 4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

sysadmin@localhost:~$
```



ACTIVIDAD DE CLASE

