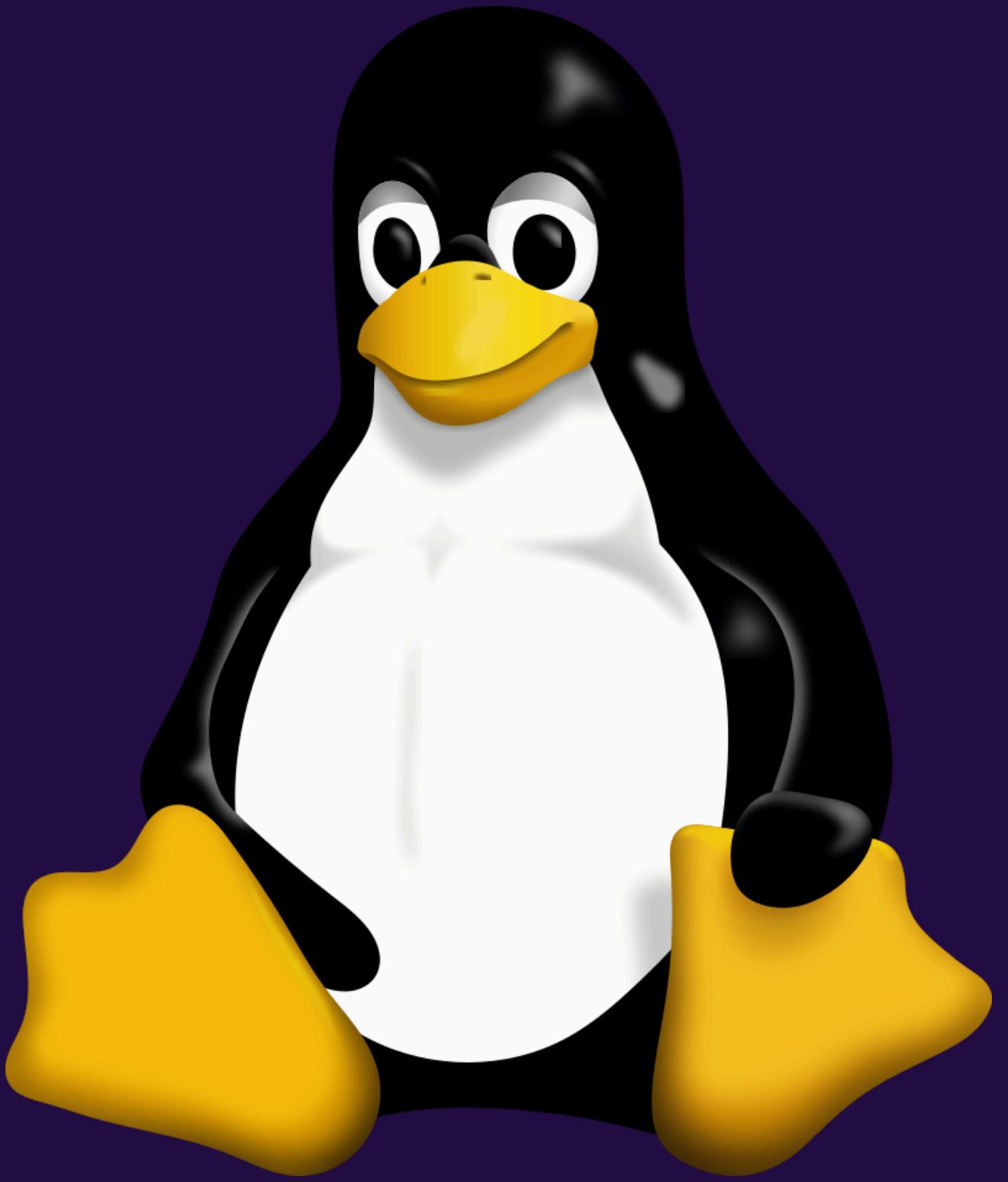


LINUX



THE WORLD OF OS

An operating system (OS) is a system software that manages a computer's hardware and software resources to perform tasks. It acts as an intermediary between the user and the computer's hardware.

Most operating systems can be grouped into two families:

- The Microsoft NT descendants, including windows, xbox OS etc.
- Pretty much everything else has lineage going back to Unix, including Mac OS, Linux, Android, Chrome OS.



WHAT IS LINUX AND WHY LINUX?

Linux is a family of open-source, Unix-like operating systems based on the Linux kernel

Open-source

1

High security

2

Lightweight

3

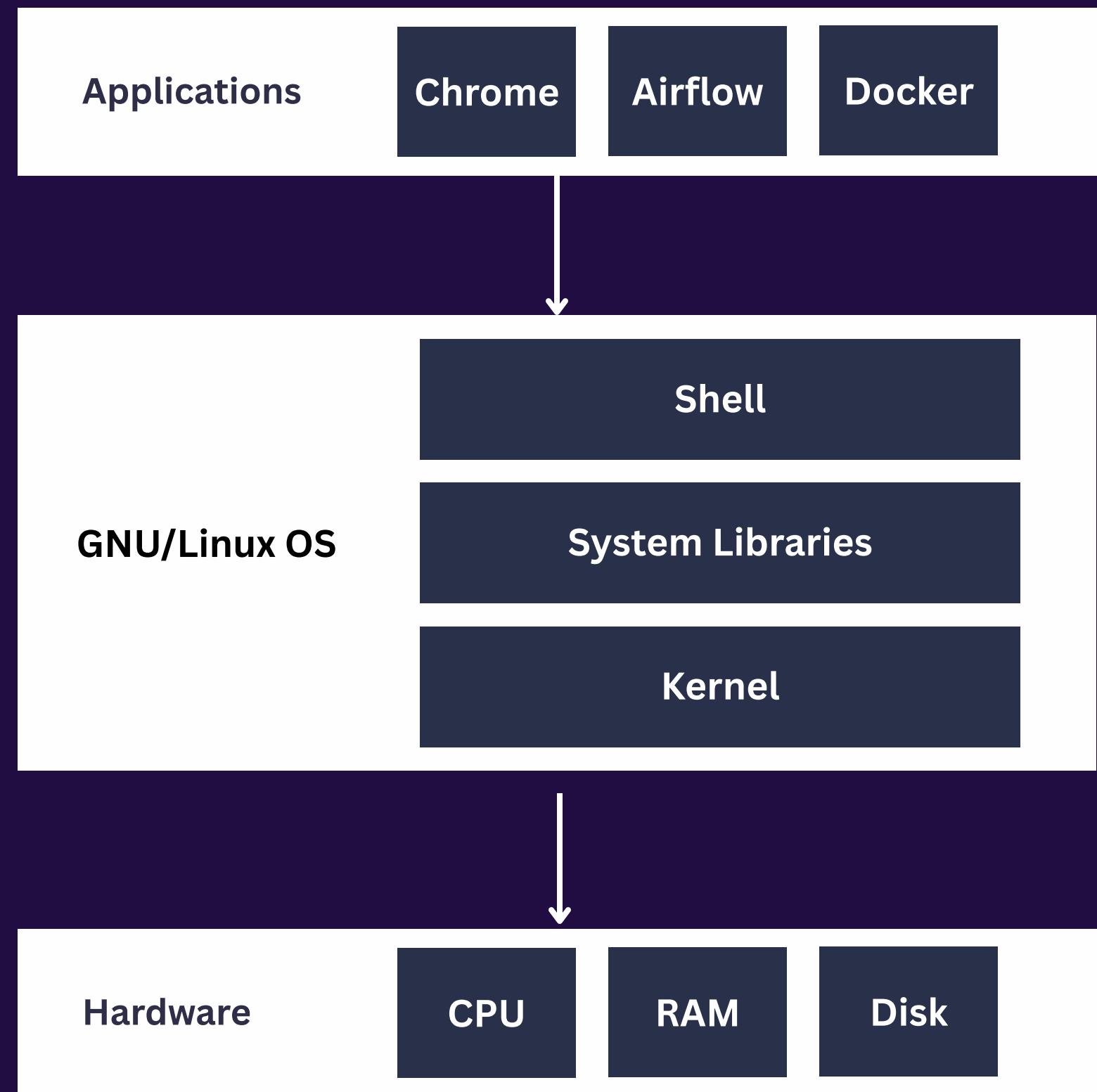
Versatility and Customization

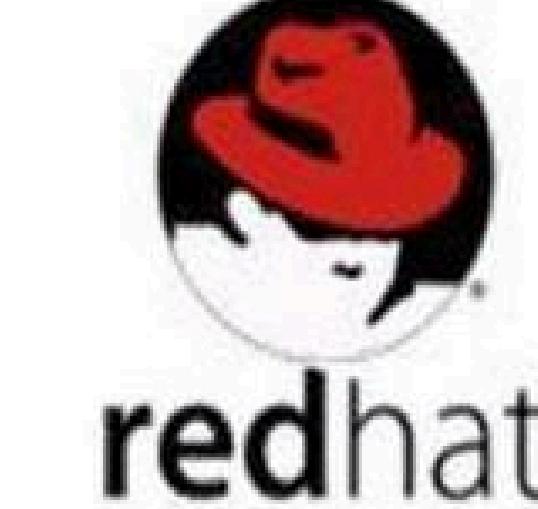
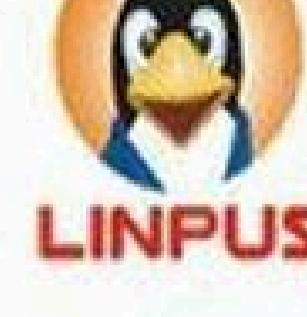
4

Portability

5

The Linux Architecture





PCLinuxOS



debian



CentOS



ubuntu



SHELL VS BASH VS TERMINAL

Shell: A shell is a command interpreter that exposes an interface to the user to work with the underlying operating system. E.g **Bash, zsh, fish.**
The shell takes our command and gives them to the operating system to perform.

Bash: Bourne Again SHell(Bash) is a popular implementation of a shell for Unix-like operating systems like Linux and macOS.

Terminal: A terminal is a program that runs a shell.

WHY USE THE COMMAND LINE?

More control over your machine

1

It's faster

2

It's available everywhere: Linux, Mac or other unix systems

3

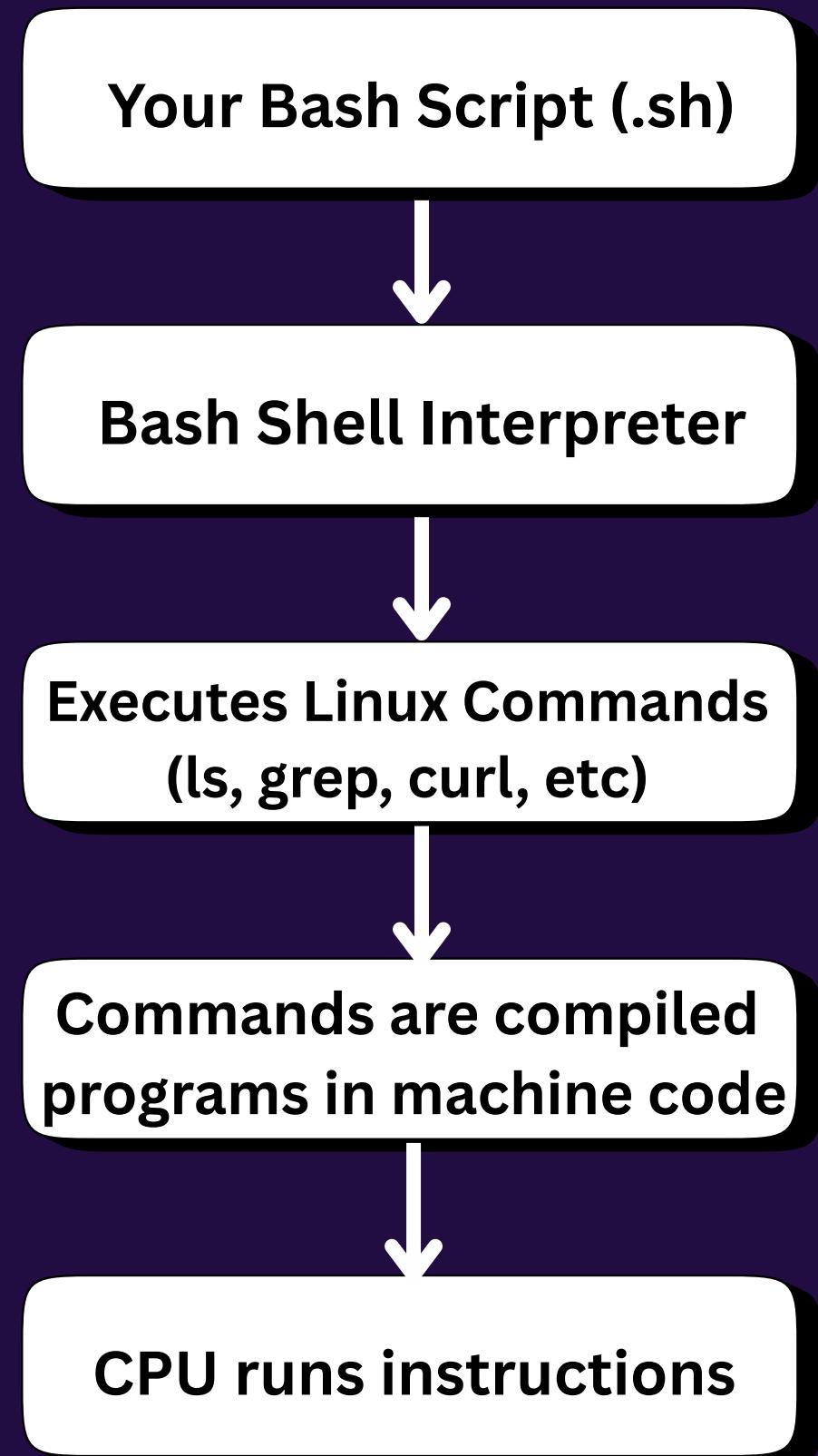
Needed for cloud computing

4

It's basically a requirement

5

How Bash interacts with Linux under the hood



Brij Kishore Pandey

LINUX FILE SYSTEM

