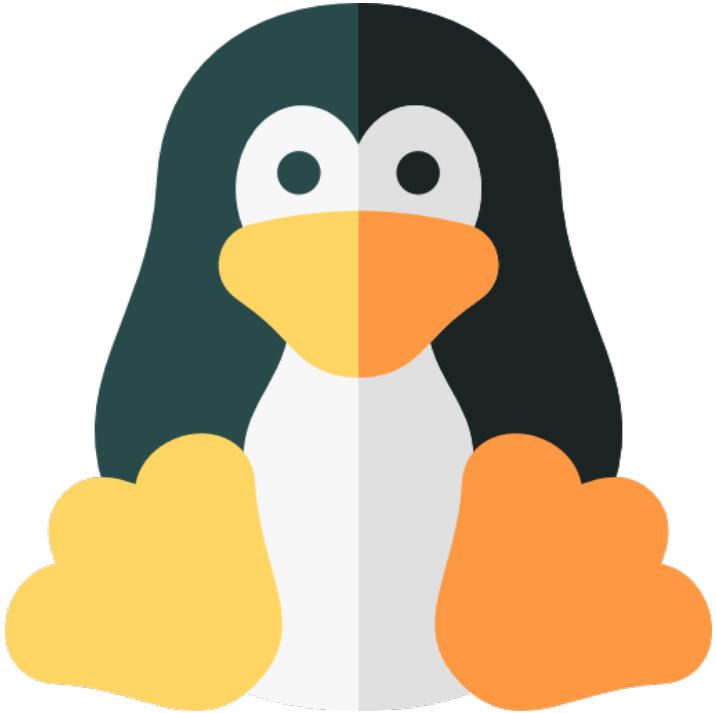

# Essential Linux Commands

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# What is an Operating System?

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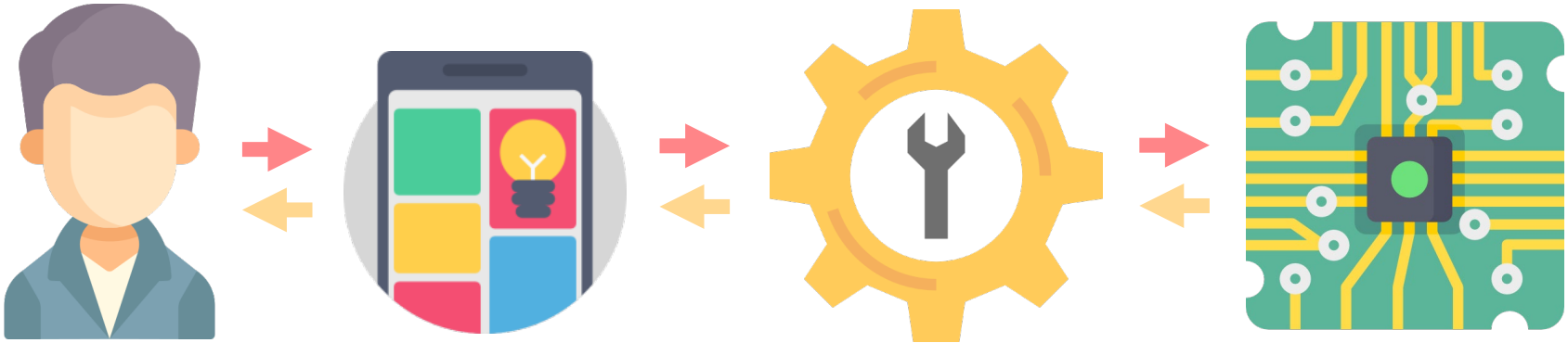
# What is an Operating system?

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# What is Linux?

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# What is Linux?

Linux is a set of open source Operating systems. It as simple as that, just like windows and mac, linux based OS provide us an interface to use specific programs with help of the hardware.

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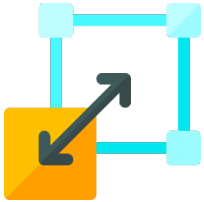
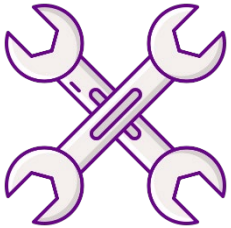
# Benefits of using Linux

Open Source

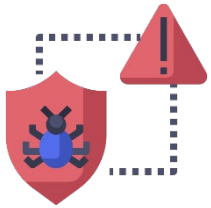


Highly Flexible

Lightweight



Highly configurable



Fewer Malware

Awesome for Development

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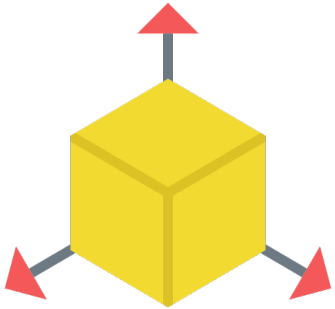
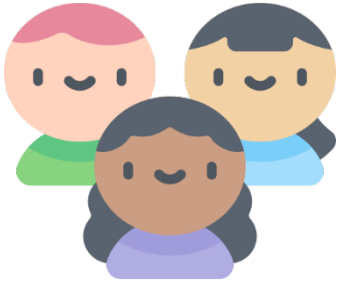
# Benefits of using Linux



Stable



Large Community

Performance

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# Linux & Unix

- What’s the difference?

# What's the difference?

## What is UNIX?

Its an operating system developed by Ken Thompson, Dennis Ritchie in 1970. It is written in C. It influenced the development of other popular Operating systems such as: MAC , solaris, AIX.

It was a paid OS that At&T sold after it's development.

## What is Linux?

It is a also an Operating system. It is a **UNIX like** operating system. It does not share any source code with UNIX, but it shares the design principles with UNIX.

It promotes the use of open source software.

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# What's the difference?

## What is UNIX?

UNIX is a complete Operating system.

## What is Linux?

Linux is a kernel, when it is packaged with different distributions it becomes a complete operating system of that flavor.

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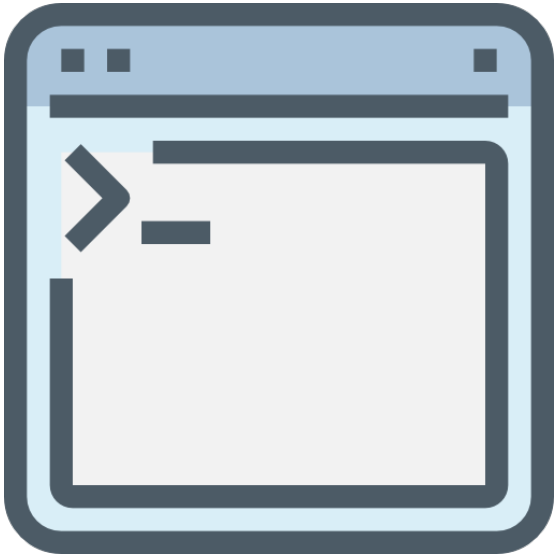
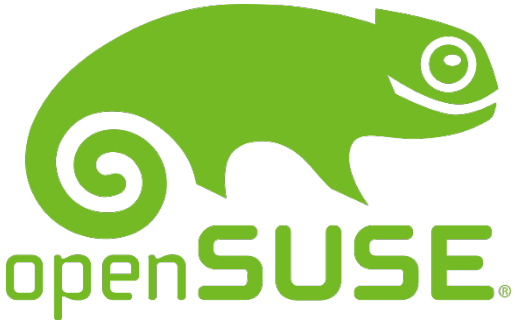
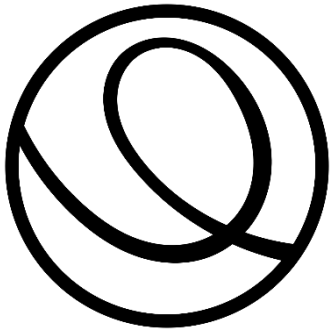


# Different Linux Distros

# Different linux Distro available



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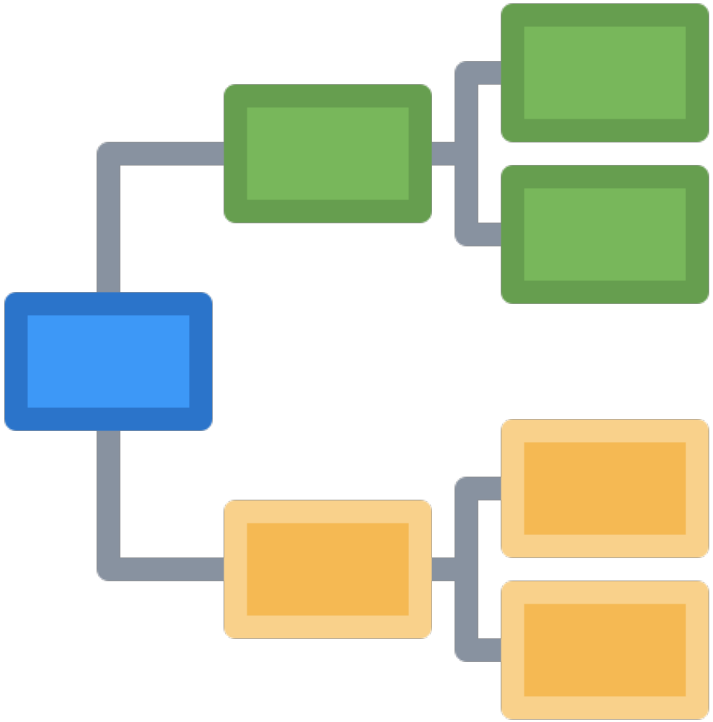
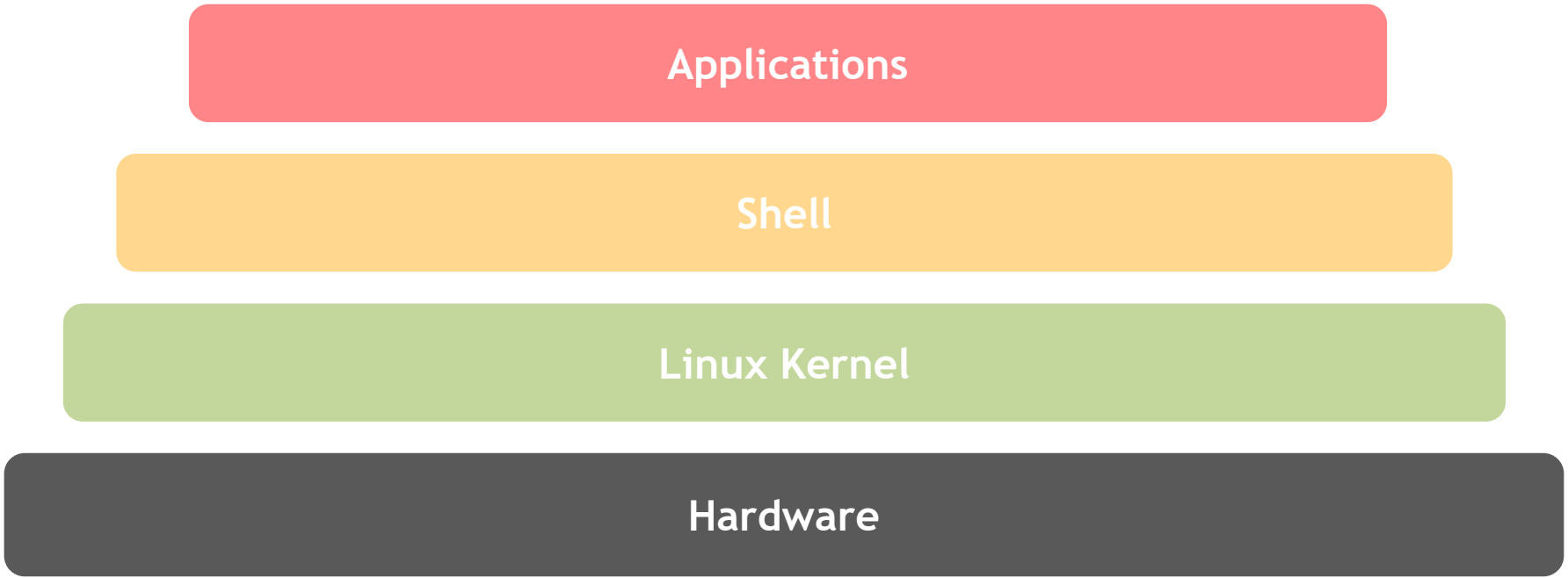


# Linux Architecture & Components

# Linux Architecture

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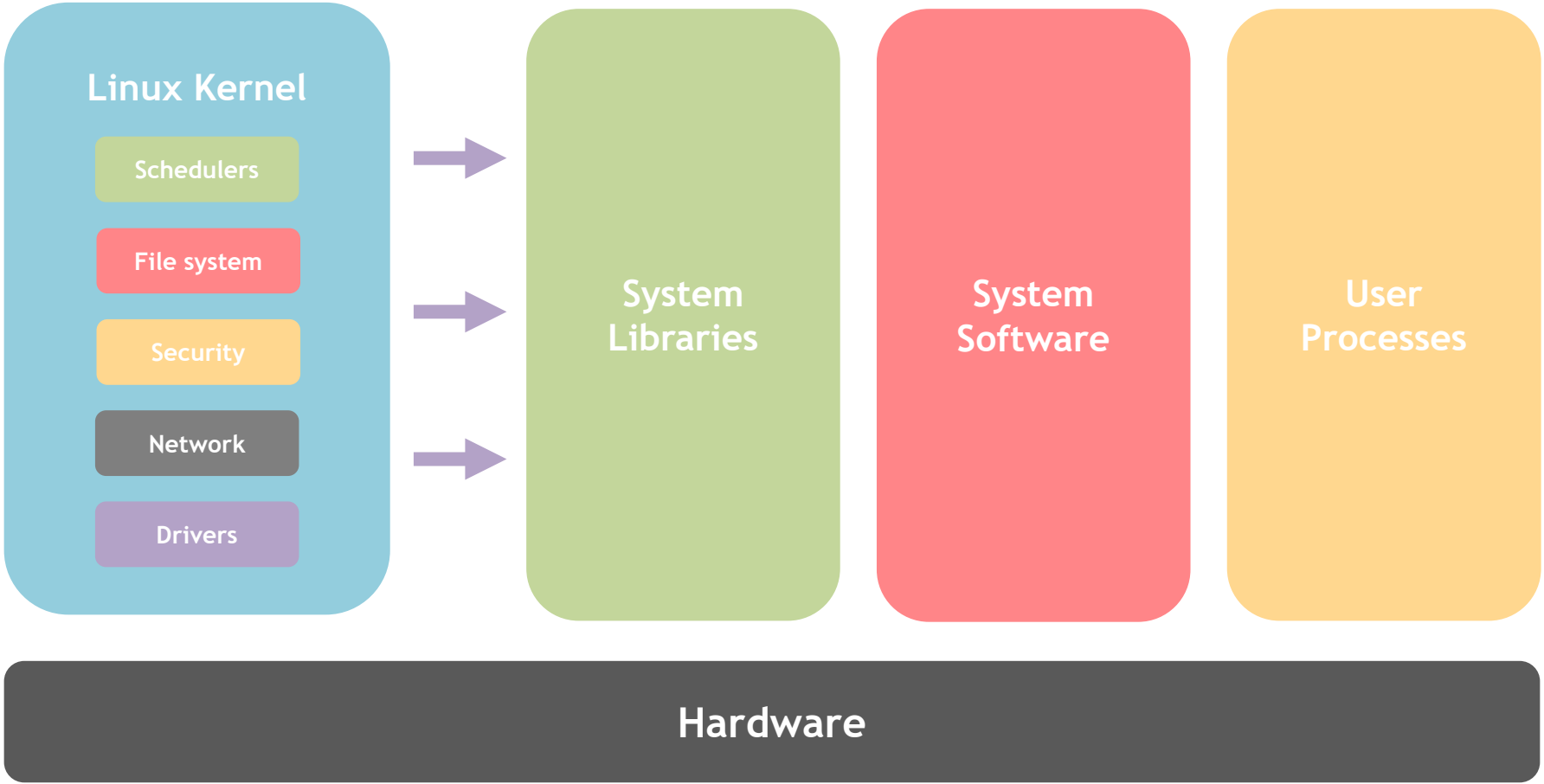
# Linux Components

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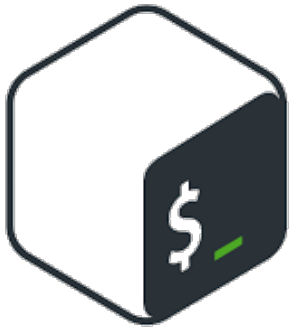
# Linux Basic Concepts

# Linux Basic Concepts

Kernel



Shell

File system

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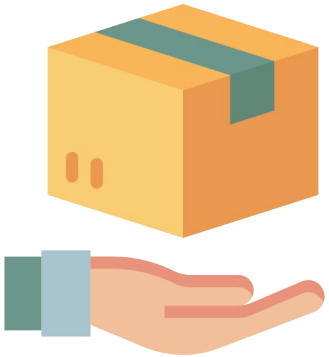
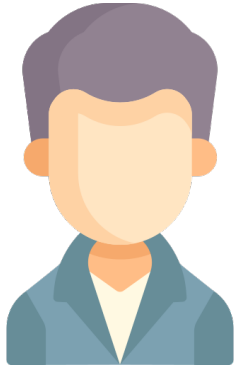
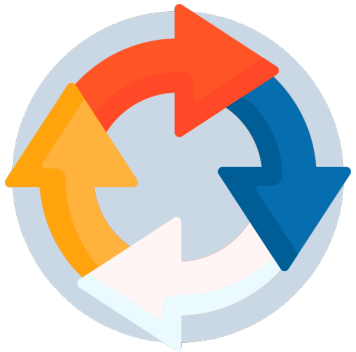
# Linux Basic Concepts



Package Manager



Users



Processes

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# Linux Installation & Setup

# Linux Installation & setup - Requirements

**Ubuntu Image**

**Virtual Box**

At least **4 GB of Ram** & **20 GB of free hard-drive space**

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# Linux Installation & setup - Requirements

Or Just Lauch a VM on a Cloud (AWS, Azure, GCP) – Easy & Free

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