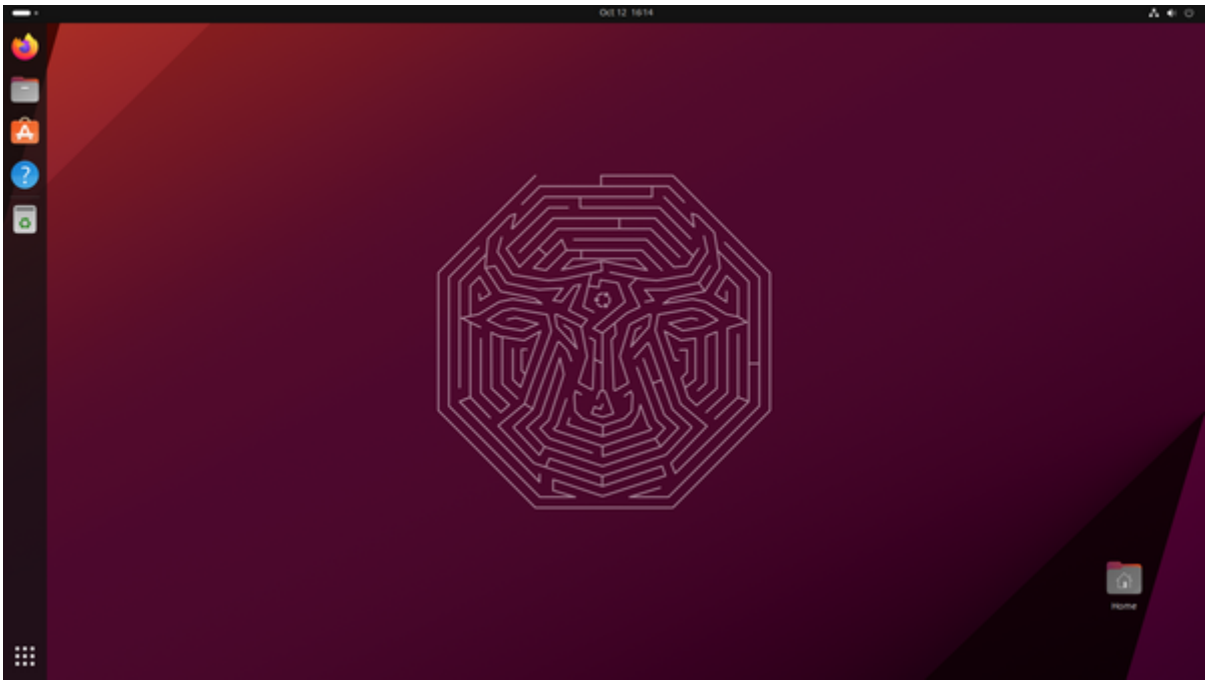
# Ubuntu


- Ubuntu
  - Introduction
    - Official distributions
      - Other
  - Some Basic Linux Commands
  - A Basic bash script
  - Commands to navigate the filesystem

## Introduction

**Ubuntu** is a Linux distribution based on *Debian* and composed mostly of free and *open-source* software. **Ubuntu** is officially released in multiple editions: Desktop, Server, and Core for Internet of things devices and robots. The operating system is developed by the British company Canonical, and a community of other developers, under a meritocratic governance model. As of October 2023, the most-recent release is 23.10 ("Mantic Minotaur"), and the current long-term support release is 22.04 ("Jammy Jellyfish").



> Quote: what is Debian? Debian, also known as Debian GNU/Linux, is a Linux distribution composed of free and open-source software and proprietary software developed by the community-supported Debian Project, which was established by Ian Murdock on August 16, 1993. Source: https://en.wikipedia.org/wiki/Debian

### Official distributions

- Desktop
- Edubuntu
- Kubunutu
- Lubuntu
- Xubuntu
- Ubuntu Unity
- Ubuntu Budgie
- Ubuntu Mate
- Ubuntu Studio
- Ubuntu Cinnamon
- Ubuntu Kylin

**Other**

1. Ubuntu Cloud Images
2. Ubuntu Core
3. Ubuntu Server
4. Ubuntu Touch

## Some Basic Linux Commands

| Command | Description |
|---|---|
| `date` | displays the current time and date |
| `cal` | displays a calendar of the current month |
| `df` | displays the current amount of free space on our disk drives |
| `free` | displays the amount of free memory |
| `uname` | displays information about your system |
| `clear` | clears the screen |

## A Basic bash script

```
#!/bin/bash
echo "The current date and time: "
date
echo "Basic details about the PC"
uname -a
```

```
echo "Total free memory"
free -h
```

## Commands to navigate the filesystem

| command | Description |
|---|---|
| ls | list files and directories |
| pwd | prints current directory |
| cd | change current directory |