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## Ubuntu



**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*").

As with other Linux distributions, all of the editions can run on a computer alone, or in a virtual machine. An upgrade to Ubuntu is released every six months, with long-term support (LTS) releases every two years. Canonical provides security updates and support for each Ubuntu release, starting from the release date until the release reaches its designated end-of-life (EOL) date.



**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

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## **Ubuntu Distributions**

## 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

#### **Unofficial distributions**

- Ubuntu DDE
- Ubuntu Web

## **Linux Commands**

#### Some Basic Linux Commands

- 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
```

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# Commands to navigate the filesystem

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