



# Linux

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F r e e d o m

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01

## Operating System

Operating system is a collection of system programs that creates connection between hardware and application software.

02

## Kernel

Kernel is a fundamental part of OS that creates connection with processor, ram, and other hardware devices.

Types: Monolithic, micro, hybrid kernel.

03

## Linux

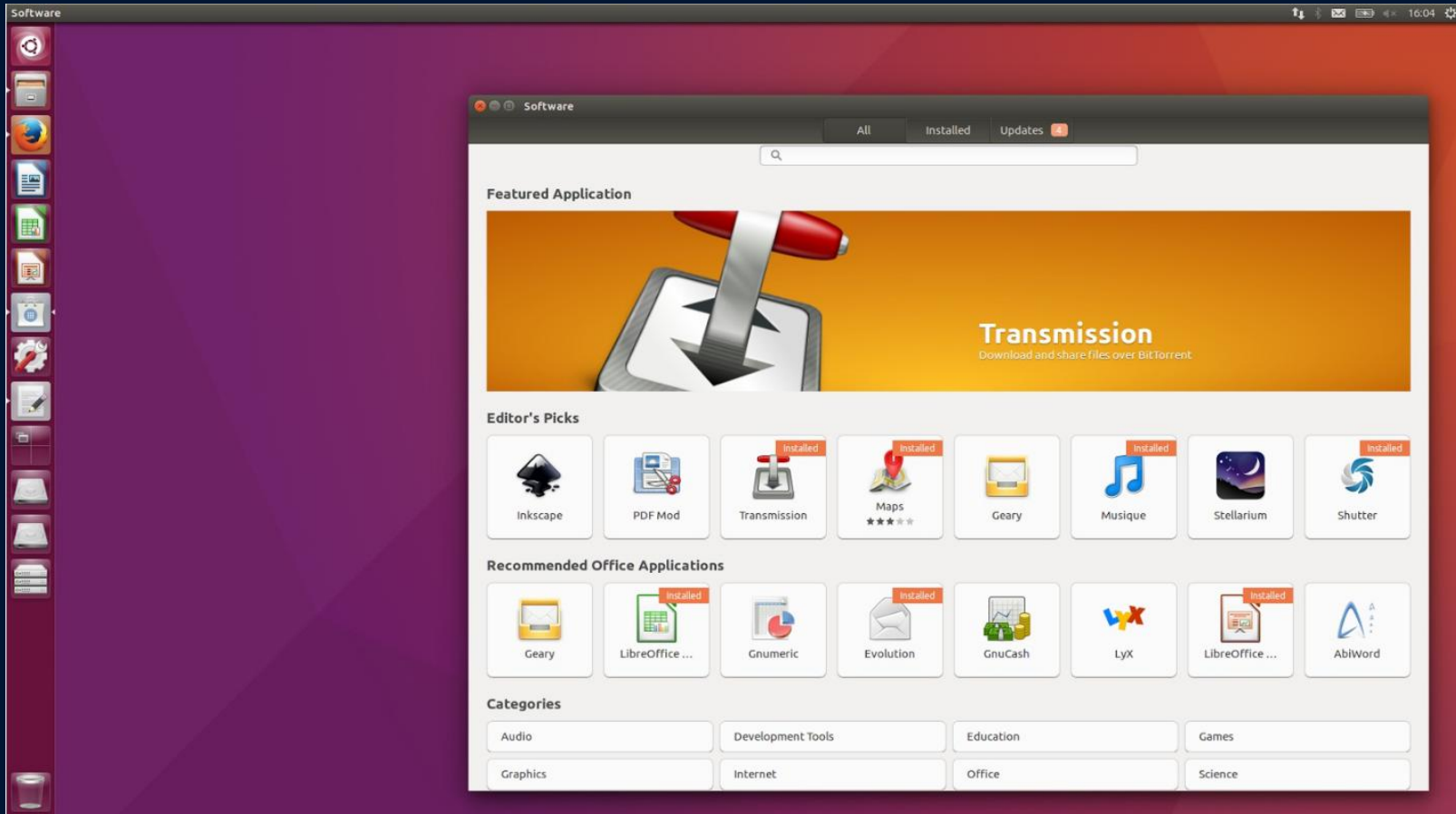
Linux is a monolithic kernel.

Linux based OS is created by adding system software and application software to this kernel.

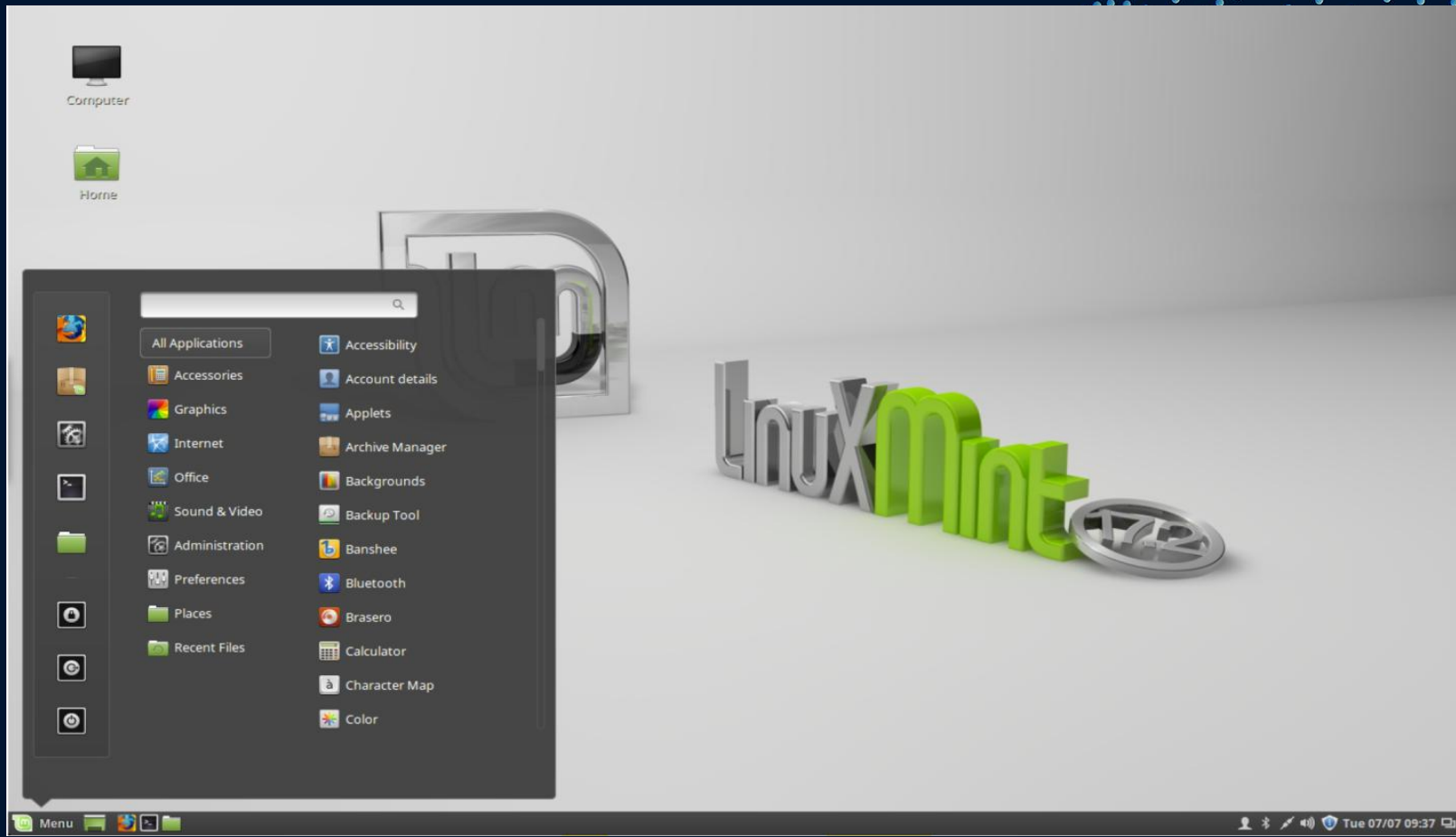


# Linux Distros

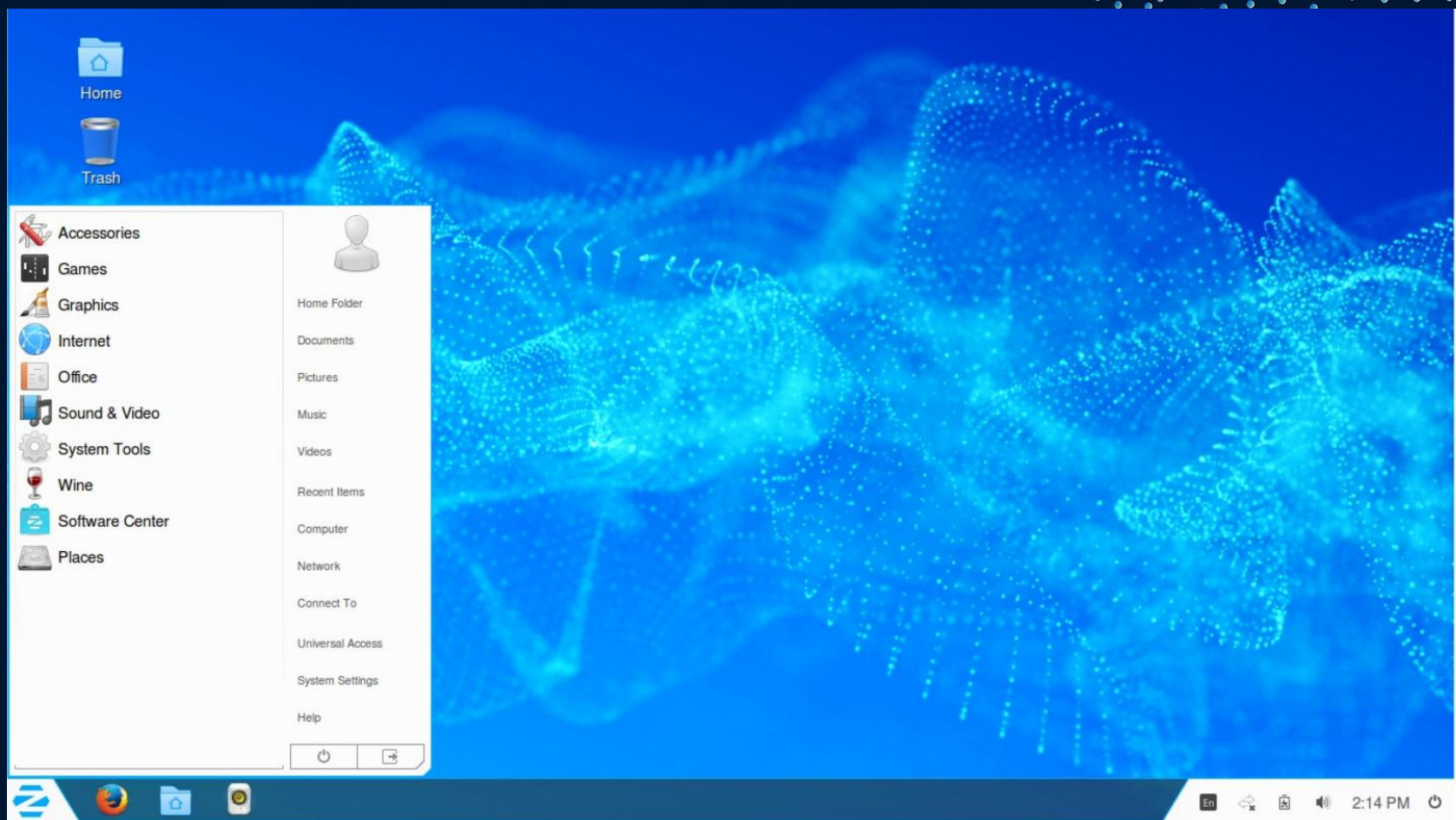




Ubuntu



Linux Mint



Zorin OS







Kali Linux

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**Linux is better!!**

**Open  
Source**

**Security**

**Highest  
hardware  
capability**

**Beautiful  
GUI**

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## Using linux

### Way 1:

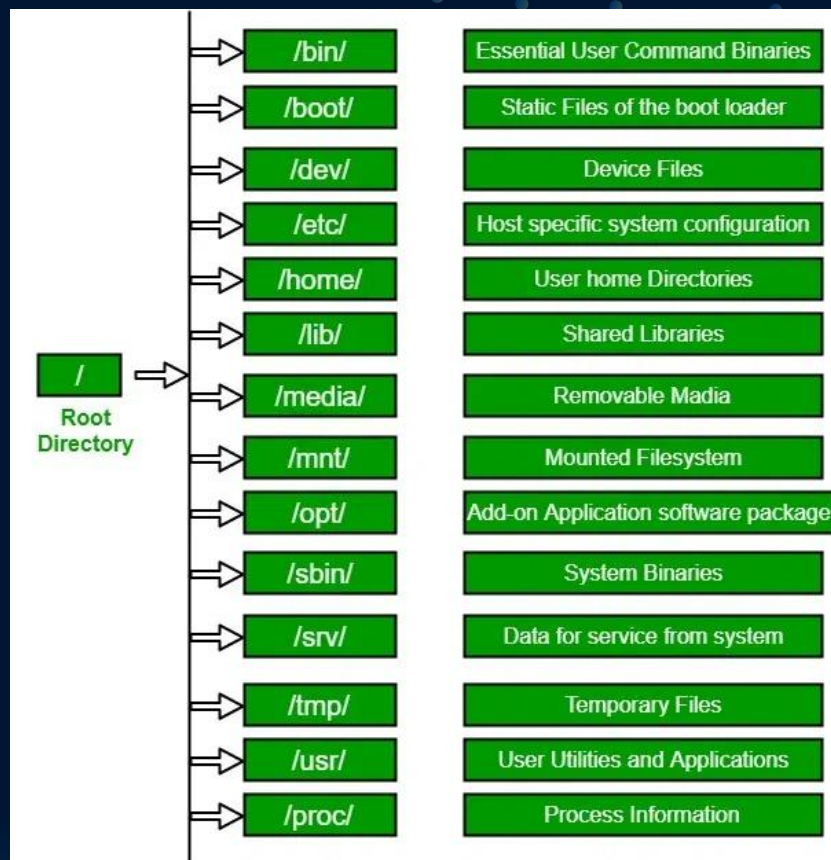
<https://www.virtualbox.org/wiki/Downloads>

<https://ubuntu.com/tutorials/how-to-run-ubuntu-desktop-on-a-virtual-machine-using-virtualbox#1-overview>

### Way 2:

[https://www.onworks.net/playonline/runonworks.php#goog\\_rew](https://www.onworks.net/playonline/runonworks.php#goog_rew)  
arded

# Linux filesystem hierarchy





# Basic Linux commands

- `whoami` - user identity
- `pwd` - present working directory
- `ls` - list
- `cd` - change directory
- `mkdir` - make directory
- `touch` - creating txt file
- `echo 'txt' > filename` - inserting text into the txt file
- `cat` - opening the txt file
- `cp file1 file2` - copying from file1 to file2
- `mv file1 file2` - moving from file1 to file2
- `rm` - remove file
- `rmdir` - remove directory
- `wget link` - downloading from the internet
- `eog filename` - opening a file
- `man` - manual for program



## Lets have fun with terminal

- `sudo apt install x11-apps -> xeyes`
- `sudo apt install cmatrix -> cmatrix`

# Resources:

- Terminal commands: <https://www.javatpoint.com/linux-commands>
- Linux tutorial:
- <https://www.youtube.com/watch?v=ROjZy1WbCIA&t=3213s&pp=ygUObGludXggdHV0b3JpYWw%3D>
- Book: ....