

Learn Ubuntu - Raspberry Pi Ubuntu 22.04.3 LTS

(GNU/Linux 5.15.0-1045-raspi aarch64)

Quick Links:

- Canonical: [https://en.wikipedia.org/wiki/Canonical_\(company\)](https://en.wikipedia.org/wiki/Canonical_(company))
 - Ubuntu opensource is a project by canonical.
- Learn Systemd: [Click here](#)

See power consumption and maximum time it can run on a powerbank of 10k mAh

See this doc -  Electricity Power Usage of Devices

Show hidden files in nautilus

Ctrl+h

Blank Screen Delay & Screen Lock

Tags: #Turn display off timer, #Display screen off

Source: [Ubuntu Docs](#)

Go to **Settings** from the top right power option menu.

Go to **Privacy > Screen**. Now set:

- *Blank Screen Delay* to **Never**
- Automatic Screen Lock to **Disabled**

Why to consider **apt** vs. **snap** for installing any dependency like **mpv** (music player)

Which is better to install mpv? via apt or snap on ubuntu?

✓ Searching for: **mpv installation apt vs snap ubuntu**

✓ Generating answers for you...

MPV is a free, open-source, portable media player that supports a wide range of file formats¹. It can be installed on Ubuntu using either apt or snap, but there are some differences between the two methods.

Apt is the official package manager for Ubuntu, which installs packages from Ubuntu's repositories. These packages are tested and verified by Ubuntu developers, and are usually stable and secure. However, they may not always have the latest version of the software, and may require system or third-party libraries to run².

Snap is an app store that contains packages that are compatible with almost all Linux distributions. These packages are self-contained, run in a sandbox, and do not communicate directly with the host system. This means they are more secure and isolated, but also take more disk space and may have slower startup times².

The choice between apt and snap depends on your preferences and needs. If you want a reliable and consistent experience, you may prefer apt. If you want the latest features and updates, you may prefer snap. You can also install both versions and compare them yourself. To install MPV using apt, run the following command in the terminal:

```
sudo apt install mpv
```

To install MPV using snap, run the following command in the terminal:

```
sudo snap install mpv-nilsboy
```

I hope this helps you decide which method to use. 😊

Learn more ▾
1 itslinuxfoss.com
2 askubuntu.com
3 tutsmake.com

1 of 30 ●

Install htop

```
sudo apt install htop
```

Install mpv

mpv docs: [Ubuntu](#), [Archlinux](#)

```
sudo apt update
sudo apt install mpv
```

```
# Play youtube videos
```

```
# Step 1: Download and install yt-dlp as instructed in Install yt-dlp section.
```

```
# Step 2: Create mpv config file (source: 1 article for ubuntu, 2 reddit post comment)
```

```
touch .config/mpv/mpv.conf
```

```
# specify `yt-dlp` binary path to mpv config file
```

```
echo script-opts=ytdl_hook-ytdl_path=/usr/bin/yt-dlp > .config/mpv/mpv.conf
```

```
# Note: You must make sure that your user is present in the audio group otherwise you  
would need to prefix sudo, e.g., sudo mpv myFile.mp3
```

```
##### FIND THE GROUPS A USER IS A MEMBER OF
```

```
groups pi
```

```
# it must output audio as one of the group
```

```
# In case your user is not part of "audio" group, you can add it like that (user=pi) #  
source
```

```
sudo adduser pi audio
```

```
# Playing any youtube url now should work:
```

```
mpv --no-video "https://www.youtube.com/watch?v=LDEYsd0XE7Y"
```

```
mpv --no-video "https://www.youtube.com/watch?v=rtTI1rh9U5M"
```

```
# Play in loop
```

```
mpv --no-video --loop "https://youtu.be/IAKi-2tAiQA"
```

```
# Play a list of urls in a example-urls.txt file e.g.,
```

```
cat example-urls.txt
```

```
# Output:
```

```
https://youtu.be/IAKi-2tAiQA # some comments here
```

```
https://www.youtube.com/watch?v=iUXGMOnewVw # some more comments here too
```

```
# Play above text file:
```

```
mpv --no-video --loop-playlist --playlist=./example-urls.txt
```

```
# Play above text with shuffling items:
```

```
mpv --no-video --loop-playlist -shuffle --playlist=./example-urls.txt
```

```
# Play youtube playlist directly
```

```
mpv --no-video https://www.youtube.com/playlist?list=PLMC9KNkIncKvYin_USF1qoJQnIyMAfRx1
```

```
# Play youtube playlist with shuffling
mpv --no-video --shuffle
https://www.youtube.com/playlist?list=PLMC9KNkIncKvYin_USF1qoJQnIyMAfRx1

# Open crontab entries by running `crontab -e`
# Play 20k thoughts daily at 6pm
# 0 18 * * * /home/pi/Downloads/music/s-play-20k-thoughts.sh

# contents of file: s-play-20k-thoughts.sh
mpv --no-video "https://www.youtube.com/watch?v=Q0xrqqA8wbs"

# Play 20k thoughts daily at 6pm (inline)
0 18 * * * mpv --no-video "https://www.youtube.com/watch?v=Q0xrqqA8wbs"
# Kill mpv at 6:05 pm
5 18 * * * kill mpv

# play mp3 file
mpv sample-3s.mp3
```

Install yt-dlp

NOTE: Please do not install mpv via apt because apt installs **2022.04.08** version (which is very old release as per release page from [official page here](#)) tested on 26 Jan 2024. So, install it via pip so you as docs of yt-dlp suggests:

Download the platform independent yt-dlp file from this page:

<https://github.com/yt-dlp/yt-dlp#release-files>

Then you can run following commands on the downloaded file:

```
wget https://github.com/yt-dlp/yt-dlp/releases/latest/download/yt-dlp
chmod +x yt-dlp
sudo mv yt-dlp /usr/bin/
```

Install ddclient

```
apt-get install ddclient
```

It will automatically ask for configuration and its pretty simple to follow up there with the steps mentioned in the official docs of namecheap [here](#).

Above steps should generate a config ddclient file which would look like below:

```
sudo cat /etc/ddclient.conf
```

OUTPUT:

Configuration file for ddclient generated by debconf

#

/etc/ddclient.conf

```
protocol=namecheap \
```

```
use=web, web=https://api.ipify.org/ \
```

```
login=sahilrajput.com \
```

```
password='xxxxxxxxxxxxxxxxxxxxxx' \
```

```
pi.sahilrajput.com
```

NOTE: ^ this line can be a comma separated list of domains which it would update the A records for.

Quick Links

DDClient Docs: [Click here](#)

- Installation: [Click here](#)

Namecheap: How do I configure my DDCLIENT: [Click here](#)

DDCLIENT & Namecheap: [Click here](#)

Set default editor for crontab & other applications

```
export EDITOR=/usr/bin/vi
```

Reset crontab file

```
crontab -r
```

Watch a command

```
# run date command every 2 seconds
watch date

# run date command every 2 seconds without header
watch -t date

# run date command every second without header
watch -n 1 -t date
```

Control volume with cli

```
## WITH PACTL
# Set volume in percentage: ((source: awesome - https://askubuntu.com/a/1086235/702911)
pactl set-sink-volume @DEFAULT_SINK@ 30%

# increase in percentage
pactl set-sink-volume @DEFAULT_SINK@ +10%

# decrease in percentage
pactl set-sink-volume @DEFAULT_SINK@ -10%

## WITH amixer (setting in terms of alsamixer units)
# increase by 5%
amixer -M set Headphone 5%+    # For my case I replaced Master with Headphone)

# set volume percentage in alsamixer units e.g, set to 50%
amixer -M set Headphone 50%

# (confusing) using other values?
amixer -D pulse sset Master 48000
```

Setting sound levels with cronjob

```
***** /home/pi/Downloads/music/sound-levels/set-sound-level.sh 55
```

```
# contents of file set-sound-level.sh
```

```
amixer -M set Headphone "$@"
```

```
# Expected comand:
```

```
# amixer -M set Headphone 50%
```

In future if I need to set sound levels in a different way?

```
# Volume level control WORKS THOUGH BUT % LEVELS
```

```
# ***** export DISPLAY=:0 && amixer -D pulse sset Master 48000 >> logs.cron.sahil.txt 2>&1
```

```
# % LEVELS ARE NOT CORRECTLY UPDATED...
```

```
# ***** export DISPLAY=:0 && amixer -M sset Master 50% >> logs.cron.sahil.txt 2>&1
```

Debugging cron jobs

Source: [Click here](#)

(Note: There are other logging solutions in the above link as well to debug cron jobs e.g., enabling logging for all cronjobs too).

```
# Notice the ending >> logs.cron.sahil.txt 2>&1
```

```
* * * * * export DISPLAY=:0 && amixer -D pulse sset Master 48000 >>  
logs.cron.sahil.txt 2>&1
```

Install Docker

Source: [Click here](#)

```
curl -fsSL https://get.docker.com -o get-docker.sh  
sudo sh get-docker.sh
```

Install curl

```
sudo apt update && sudo apt upgrade
```

```
sudo apt install curl  
# verify  
curl --version
```