Setup YouTube Downloader Web Server -source code / Build Your Own

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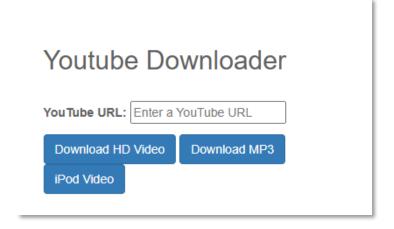
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Introduction

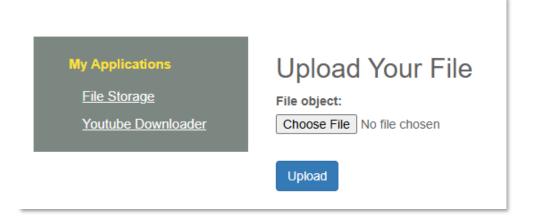
This is an open-source web app mainly for downloading your favour YouTube video without using the public ones which contains a lot annoying Ads fake downloads

It can download 1080 HD video and 480p format for older generation iPods.

It can also just download the audio into MP3 format



In addition, it has a simple online storage tool that allows you to upload / download your files from your phone, computer and share them in between devices. Your files will just be saved to your own server without paying 3rd party subscription and safe.



Install the server

We are using Ubuntu server VM or Raspberry Pi OS and just need to enable SSH with full access

- Ubuntu server 24.04.01 (minimal footprint install / 2 CPU / 2G RAM / 20Gb Disk)
 - o If the system running on VM. Make sure all disk space has been used.

sudo lvextend -l +100%FREE /dev/ubuntu-vg/ubuntu-lv sudo resize2fs /dev/mapper/ubuntu--vg-ubuntu—lv

```
user@filesafer:~$ df -h
Filesystem
                                      Size
                                            Used Avail Use% Mounted on
tmpfs
                                      192M
                                            976K
                                                  192M
                                                           1% /run
                                            4.0G
/dev/mapper/ubuntu--vg-ubuntu--lv
                                                         24% /
                                       18G
                                                    13G
                                                           0% /dev/shm
                                                   960M
                                      960M
                                               0
                                                          0% /run/lock
7% /boot
                                      5.0M
                                               Θ
                                                   5.0M
tmpfs
/dev/sda2
                                      1.8G
                                             99M
                                                   1.6G
                                      192M
                                              12K
                                                   192M
                                                           1% /run/user/1000
```

- Raspberry Pi 4b (2G RAM / 16Gb Micro SD)
 - o Install Raspberry Pi OS Lite (no Desktop needed)

Install Django Framework and necessary Apps

```
sudo apt-get update
sudo apt-get install ffmpeg
sudo apt-get install python3-django python3-pip python3-venv
```

• If you are using Ubuntu server 20.04 with minimal footprint installation

sudo apt-get install nano cron iputils-ping sudo nano /etc/resolv.conf add line: nameserver 8.8.8.8

Create virtual environment and install Django

cd /
sudo mkdir Automation
sudo chmod 777 Automation
python3 -m venv Automation
cd Automation
source bin/activate
pip3 install Django

Create web applications and install dependent libraries

Perform below commands under directory /Automation within the virtual environment

```
django-admin startproject Downloader .

python3 manage.py startapp Login

python3 manage.py startapp Efile

python3 manage.py startapp Youtube_downloader

pip3 install ipcalc six yt_dlp django-sslserver
```

• Above process creates below folder structure

```
Downloader
Youtube_downloader
Efile
Login
Youtube downloader
```

Copy the source code files and install

We will use sftp to cory the source files into created directories from above

If you are using windows computer you can use MoxaXterm free application to do this. Linux user can perform this task natively using Terminal.

Start from the directory where you have downloaded source files. SFTP to the server

```
cd /Automation put -R *
```

 All files source files will be copied into corresponded folders. And Automation folder should looks like below

```
(Automation) user@filesafer:/Automation$ ls -l
total 56
drwxr-xr-x 2 user user 4096 Jun
                                     9 02:56 Cert
drwxr-xr-x 3 user user 4096 Jun
                                     9 02:43 Downloader
drwxr-xr-x 3 user user 4096 Jun
                                    9 02:56 Efile
drwxr-xr-x 3 user user 4096 Jun
                                    9 02:56 Login
drwxr-xr-x 4 user user 4096 Jun
                                    9 02:56 Static
drwxr-xr-x 2 user user 4096 Jun
                                    9 02:56 WebTemplates
drwxr-xr-x 3 user user 4096 Jun
                                    9 02:56 Youtube_downloader
drwxrwxr-x 2 user user 4096 Jun
                                    9 02:52
                                              bin
drwxrwxr-x 3 user user 4096 Jun
                                              include
                                    9 02:34
drwxrwxr-x 3 user user 4096 Jun
                                    9 02:34
                          3 Jun
                                    9 02:34 lib64 -> lib
lrwxrwxrwx 1 user user
-rwxrwxr-x 1 user user 666 Jun

-rw-rw-r-- 1 user user 150 Jun

-rwxr-xr-x 1 user user 542 Jun

drwxrwxr-x 7 user user 4096 Jun
                                    9 02:42 manage.py
                                    9 02:34 pyvenv.cfq
                                     9 02:56 run.sh
                                     9 02:52
                                              share
(Automation) user@filesafer:/Automation$
```

Create Database

python3 manage.py makemigrations python3 manage.py migrate

Create superuser for the Web App. This account is for you to login to the Web GUI

python3 manage.py createsuperuser

```
(Automation) user@filesafer:/Automation$ python3 manage.py createsuperuser
Username (leave blank to use 'user'): user
Email address:
Password:
Password (again):
Superuser created successfully.
{Automation} user@filesafer:/Automation$ ■
```

• Setup application auto-start (My ubuntu user account called "user" where used in @reboot code below)

sudo nano /etc/crontab

add below line to the bottom and save / exit

@reboot user /bin/bash -c "/Automation/run.sh"

Reboot the server and access the web app via browser

sudo reboot now

https://<your-server-ip-address>:8000

