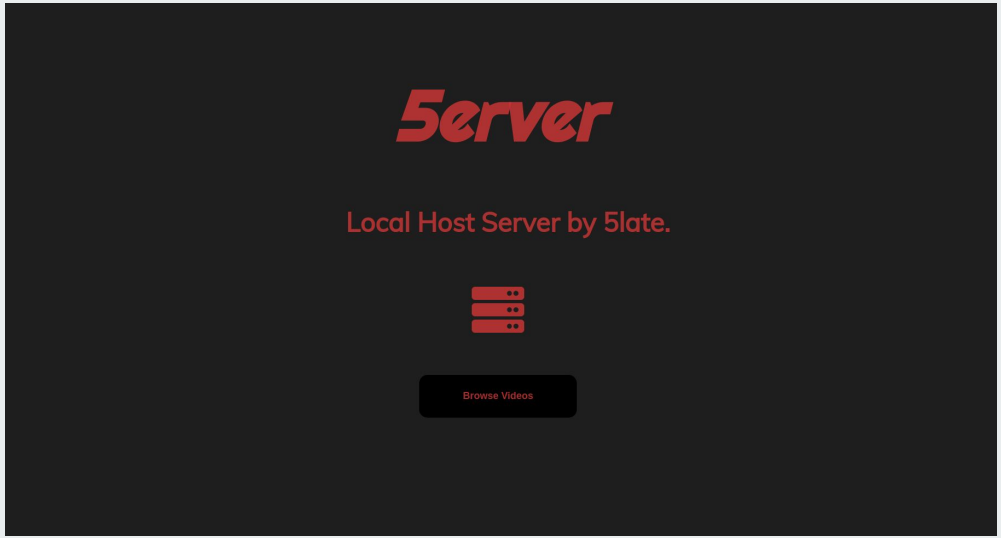
5erver Quick Start

By 5late



What will you need?

- Raspberry Pi
- Monitor, Keyboard, Mouse (For Pi setup)
- Some medium of storage (USB, External Drive, etc)
- Another laptop/computer to remotely access the server

Pre-guide set up

- This guide assumes that you have configured and set up a username and password on your Raspberry Pi.
  - This is typically one of the first things to do once your Pi is confirmed on and booted with an OS.
  - If you encounter problems, contact me.
- You will also need to set up SSH for the set up of the server. There are plenty of guides online available on how to set up SSH on a Pi.

Connecting to Pi

From your remote computer, type the following into your command line:

ssh *USER@IP**

If successful you should be able to successfully ssh into the Pi.

If not, retry, or check online guides on SSH configuration.

From now on in the guide, we'll use an icon at the top right to display when you should be SSH'd into the Pi, and when you shouldn't.

*USER is the username you setup with the Pi, and IP is the IP which is assigned to the Pi, this can be checked by typing `ip a` in the terminal on your Pi.

Installing the correct packages

SSH 

Once successfully connected to the Pi, make sure it's up to date by running `**sudo apt update**` and `**sudo apt upgrade**`.

Install apache2 and libapache2-mod-php by running `**sudo apt install apache2 libapache2-mod-php**`.

At this time, navigating to the IP address of your Pi in your browser should show a default Apache2 web page.

The next step is to mount your storage to the Pi in order to store files without worrying about space limitations.

Mounting the Storage

SSH 

By default, your Pi will not have very much storage, usually around 8GB.

This will not be enough if you are planning to use the server for video files or files that will be large in size.

Start by plugging your USB or other external storage into one of the USB ports on your Pi.

Then, type `**lsblk**`. This will list your devices connected.

Search for your USB or external device and note the name it has. (Usually sdb1 or similar)

Then type `**sudo mount /dev/sdX /var/www/html**`

Lastly, create two directories by using the following commands.

`**cd /var/www/html**` then `**sudo mkdir vids**` then `**sudo mkdir scripts**`

Get 5erver

The next step is to get 5erver running on the Pi.

Make sure you are not SSH'd while doing this step. If you are, hit CTRL+D to logout of the Pi.

Then, on your machine, clone the GitHub repo. This can be done by downloading the code from GitHub.

Once downloaded, navigate to the folder where the repo is. (Usually the Downloads folder) by using cd.

You will need to download SCP. This can be done on Windows* in a variety of ways, so search it up and choose the method best for you.

*Linux/Mac is easy to install as well using Brew/Linux Package Managers. Contact me for more information.

Make 5erver local

SSH 

Once you have SCP installed run the command `**scp /5erver/index.html *USER@IP*:/var/www/html/**`

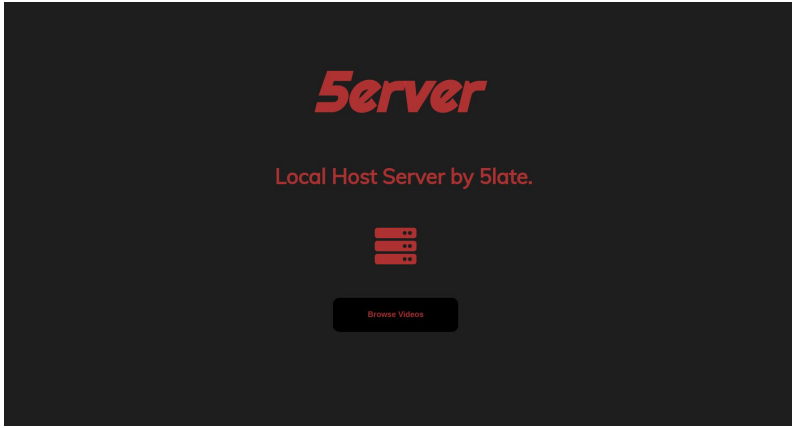
Next is these commands:

`scp /5erver/videos.html *USER@IP*:/var/www/html/`

`scp /5erver/style.css *USER@IP*:/var/www/html/`

`scp /5erver/scripts/main.js *USER@IP*:/var/www/html/scripts`

Double Check 5erver



Navigate to the Pi's IP address* from your browser**

Check to make sure you see something similar*** to this:

If you see it, great! The front-end of the server is set up!

Next, we'll test that videos uploaded to the server show up on the server website!

*The IP address may look something like 192.168.0.10

**Google Chrome has been heavily tested and is recommended. Internet Explorer is HIGHLY unsupported and not advised.

***Scaling may be off, use CTRL++ and CTRL +- to scale correctly

Upload a Video

Make sure your video is in MP4 format. Other formats may not show up on the website*.

Use the following command:

`scp /path/to/your/video *USER@IP*:/var/www/html/vids`

If all went well, you should be able to navigate to the website and click “Browse Videos”.

Here, you should see a red button which will play your video when clicked, streaming directly off the Pi.

*Support for other formats as well as other files is planned. Check the github for updates.

Your 5erver setup is complete.

Make sure to check the GitHub page frequently, as there may be big changes!


@5late._


Xurxx#7879


github.com/5late