

# How-To: Setup Private WebPageTest Instance

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## Install the WPT Web Server

### Manual Install

1. Clone <https://github.com/WPO-Foundation/webpagetest>
2. Copy the www folder inside to your default web server document directory.
3. Modify web server configurations to ensure that the www folder is accessible via <http://localhost/>. This page should look like the webpagetest portal where you can specify web url and other settings to load the page.
4. Open <http://localhost/install/> and install the missing (non-optional) dependencies mentioned on the page.
5. cd into "www/settings/" folder and copy all \*.ini.sample files to \*.ini files. The important ones are locations.ini, connectivity.ini, and settings.ini. You can refer to <https://www.utkarshgoel.in/WPT/locations.ini>, <https://www.utkarshgoel.in/WPT/connectivity.ini>, and <https://www.utkarshgoel.in/WPT/settings.ini> files to prepare your own.

### Or, No-hassle Install

To Configure WPT on an out-of-the-box Ubuntu, for example an AWS EC2 Ubuntu instance, download the [WPT quick installation shell script](#), make it executable, and run it. The script will install (all) the dependencies needed for a private WPT instance. Once the script finishes, check the `/install` path on the web server to ensure all dependencies are installed.

### Notes

For OSX 10.11, make sure you install python Pillow==5.0.0

For OSX 10.11, make sure you run `curl -s http://php-osx.liip.ch/install.sh | bash -s 5.5` to enable FreeType support for GD

If the video does not get produced, make sure `www/video/render.php` has correct path to `ffmpeg`. In my case, it was supposed to be `/usr/local/bin/ffmpeg`

# Setup the WPT Agent

1. Clone <https://github.com/WPO-Foundation/wptagent>. We will be running the wptagent.py file, so make sure you have python 2.7 installed already.
2. Cd into wptagent folder

## Start the Laptop agent

1. Assuming you have Chrome installed on your laptop, run the command below to start the agent:

```
$> sudo python wptagent.py --server "http://localhost/work/"  
--laptop --location laptop_wpt
```

This command will start the agent and once started, it will print "Running agent, hit Ctrl+C to exit"

2. Visit <http://localhost> and you should see "laptop" populated in the test location field and "chrome" populated in the browser field. Use the interface as you would use the live webpagetest website. You can also check <http://localhost/install/> to see that it shows that one agent (laptop) is connected.

## Start the Android Agent

1. Plug in the android device to the laptop with USB debugging turned on.
2. Make sure the device shows up when you run  
\$> adb devices
3. Now, to run the WPT agent, run the command below

```
$> sudo python wptagent.py --server "http://localhost/work/"  
--android --location android_wpt
```

You can also check <http://localhost/install/> to see that it shows that one agent (android) is connected. Make sure the android device is connected to the Internet, has at least 50% battery charge and the device temperature is below 36C.

## Notes

If you get the following error, this means that you need to kill the parent of the pid=30451

```
psutil.ZombieProcess: psutil.ZombieProcess process still  
exists but it's a zombie (pid=30451)
```

Run the command below to get the parent process ID

```
$> ps -o ppid= -p <zombie process ID>
```