

Guide to use this web site in parallel to the regular SkyView GUI from FlightAware

20190817/BM

Login to your RasPi.

You may be now in /home/pi or the like

Stop the http daemon

```
$ sudo service lighttpd stop
```

Preparing files

Create a staging folder:

```
$ mkdir stage
```

Copy all of the content of site-data into this folder (use WinSCP or a similar handy tool to transfer files or get it via RasPi Browser directly).

You should now have something like

```
stage/app/  
stage/html_2/  
stage/sqlldb/  
stage/vendor/  
stage/composer.json
```

Change to the fa share folder

```
$ cd /usr/share/dump1090-fa/
```

Copy all of the stage content into this directory

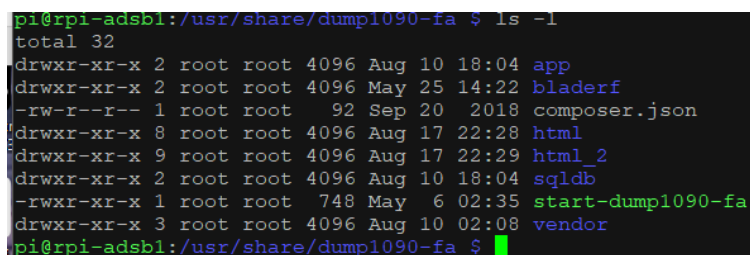
```
$ sudo cp -r /home/<whatever>/stage/* .
```

Note: this should not interfere with any FA provided content...

Double check:

```
$ ls -l
```

Should look like this...

A terminal window screenshot showing the output of the 'ls -l' command in the directory /usr/share/dump1090-fa. The output lists several files and directories with their permissions, owner, group, size, date, and name. The files listed are app, bladerf, composer.json, html, html_2, sqlldb, start-dump1090-fa, and vendor. The prompt shows the user is pi@rpi-adsbl in the directory /usr/share/dump1090-fa.

```
pi@rpi-adsbl:/usr/share/dump1090-fa $ ls -l  
total 32  
drwxr-xr-x 2 root root 4096 Aug 10 18:04 app  
drwxr-xr-x 2 root root 4096 May 25 14:22 bladerf  
-rw-r--r-- 1 root root  92 Sep 20  2018 composer.json  
drwxr-xr-x 8 root root 4096 Aug 17 22:28 html  
drwxr-xr-x 9 root root 4096 Aug 17 22:29 html_2  
drwxr-xr-x 2 root root 4096 Aug 10 18:04 sqlldb  
-rwxr-xr-x 1 root root  748 May  6 02:35 start-dump1090-fa  
drwxr-xr-x 3 root root 4096 Aug 10 02:08 vendor  
pi@rpi-adsbl:/usr/share/dump1090-fa $
```

Enable PHP for the web server

In order to use PHP for data access one has to enable PHP7 for the used web server

Ref: PHP 7.0 ON RASP <https://pimylifeup.com/raspberry-pi-lighttpd/>

```
$ sudo apt-get update
$ sudo apt-get install php7.0-fpm
$ sudo lighttpd-enable-mod fastcgi
$ sudo lighttpd-enable-mod fastcgi-php
```

Edit the config file:

```
$ sudo nano /etc/lighttpd/conf-available/15-fastcgi-php.conf
```

Type/Copy Paste/Edit

```
fastcgi.server += ( ".php" =>
    (
        "bin_path" => "/usr/bin/php-cgi",          ---REMOVE CGI
        "socket" => "/var/run/lighttpd/php.socket",  ---REMOVE V5
        "socket" => "/var/run/php/php7.0-fpm.sock",  ---ENABLE V 7
        "max-procs" => 1,                        ---REMOVE max
        "bin-environment" => (                    ---REMOVE stuff
            "PHP_FCGI_CHILDREN" => "4",
            "PHP_FCGI_MAX_REQUESTS" => "10000"
        ),
        "bin-copy-environment" => (              ---REMOVE exec env
            "PATH", "SHELL", "USER"
        ),
        "broken-scriptfilename" => "enable"
    )
)
```

Ctrl-X to exit and save with Y

Finally it looks like this

```
# -*- depends: fastcgi -*-
# /usr/share/doc/lighttpd/fastcgi.txt.gz
# http://redmine.lighttpd.net/projects/lighttpd/wiki/Docs:ConfigurationOptions#mod_fastcgi-fastcgi

## Start an FastCGI server for php (needs the php5-cgi package- update to V7)
fastcgi.server += ( ".php" =>
    (
        "socket" => "/var/run/php/php7.0-fpm.sock",
        "broken-scriptfilename" => "enable"
    )
)
```

Note: if PHP V7 is already used then you may omit this step – it relates to native installations of FA

In order to access the new website we edit the lighttpd config for dump1090 to add another site

```
$ sudo nano /etc/lighttpd/conf-available/89-dump1090-fa.conf
```

Type/Copy Paste/Edit – add red parts

```
# Allows access to the static files that provide the dump1090 map view,
# and also to the dynamically-generated json parts that contain aircraft
# data and are periodically written by the dump1090 daemon.

alias.url += (
    "/dump1090-fa/data/" => "/run/dump1090-fa/",
    "/dump1090-fa/" => "/usr/share/dump1090-fa/html/",
    "/dump1090-fa2/data/" => "/run/dump1090-fa/",
    "/dump1090-fa2/" => "/usr/share/dump1090-fa/html_2/"
)

# redirect the slash-less URL
url.redirect += (
    "^/dump1090-fa$" => "/dump1090-fa/",
    "^/dump1090-fa2$" => "/dump1090-fa2/"
)

# Listen on port 8080 and serve the map there, too.
$SERVER["socket"] == ":8080" {
    alias.url += (
        "/data/" => "/run/dump1090-fa/",
        "/" => "/usr/share/dump1090-fa/html/"
    )
}
$SERVER["socket"] == ":8081" {
    alias.url += (
        "/data/" => "/run/dump1090-fa/",
        "/" => "/usr/share/dump1090-fa/html_2/"
    )
}

# Add CORS header
server.modules += ( "mod_setenv" )
$http["url"] =~ "^/dump1090-fa/data/.*\.json$" {
    setenv.add-response-header = ( "Access-Control-Allow-Origin" => "*" )
}
```

Ctrl-X to exit and save with Y

Finally start the http daemon:

```
$ sudo service lighttpd force-reload
```

Access SkyView with Glass Panel with your browser

<http://<pihost>:8081/>

or

<http://<pihost>/dump1090-fa2>