

Ubuntu 18.04 + Apache2

Prerequisites:

- Ubuntu 18.04/20.04
- Apache2 – 2.4.29 (`$apache2 -v`)
- PostgreSQL v10 (see the separate postgresql note)
- Mod_wsgi (v4.7.1) installed from source

(1) Log in to Ubuntu 18.04 as marvin (has sudo privilege – checking by (a) `vi /etc/group`; (b) `getent group sudo`; (c) `cat /etc/group | grep sudo*`)

(2) `mkdir /var/www/ww-site`; `cd /var/www/ww-site`

(3) Create a venv: `python3 -m venv venv`

(4) Source venv/bin/activate

(5) `sudo mkdir winter-winn`

(6) `sudo chmod 755 winter-winn -R`

(7) `sudo chown :www-data winter-winn`

(8) `cd winter-winn`

(9) `git init`; `git clone https://github.com/marvinxu99/py_django_pg_winn.git`

(10) PostgreSQL created a db named “winn_la_1”

(11) `pip3 install -r requirements.txt`

(12)> `Python manage.py collectstatic`

(13)> `python manage.py migrate`

(14)> `python manage.py createsuperuser`

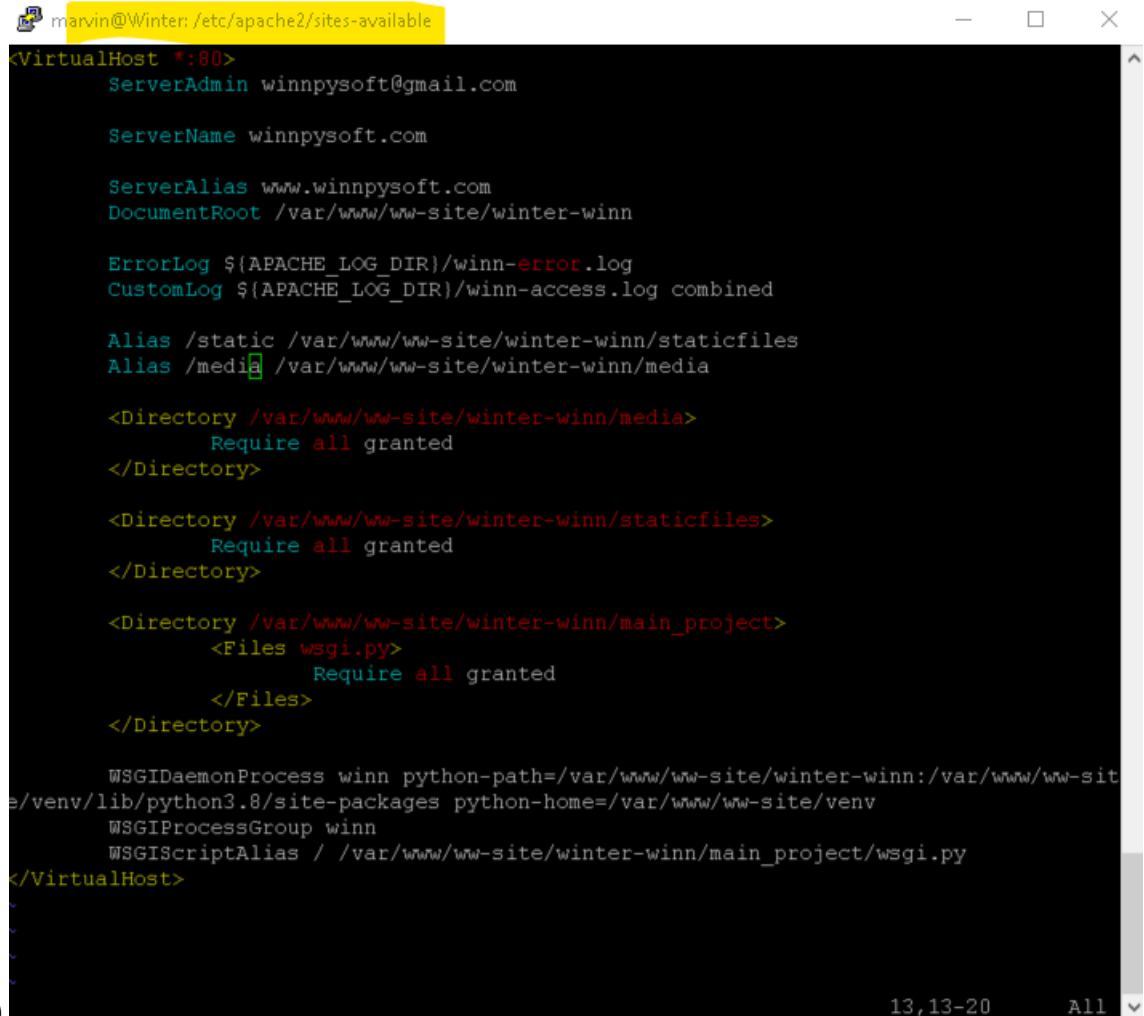
(15)> `python manage.py runserver` - ensure there are no errors, then CTRL-C exit

(16) Define environment variables:

`sudo vi /etc/apache2/envvars`, add the following to the bottom.

```
## Env vars for winter-wi
export DEBUG=True
export DOMAIN=PROD
export MY_GMAIL=marvinxu9
export MY_GMAIL_PASSWORD=
export SECRET_KEY='f$1b=m
export ALLOWED_HOSTS='127
export STRIPE_SECRET_KEY=
export OXFORD_APP_ID=7731
```

- (17) `cd /etc/apache2/sites-available`
- (18) `Sudo cp mysite.conf winter-winn.conf`
- (19) `Sudo chown $USER:$USER winter-winn.conf`
- (20) `vi winter-winn.conf`
- (21) Ensure the following settings are correct: (in the screenshot, the venv is `/var/www/ww-site/venv`. Website path is at `/var/www/ww-site/winter-winn`.



```
<VirtualHost *:80>
    ServerAdmin winnpysoft@gmail.com

    ServerName winnpysoft.com

    ServerAlias www.winnpysoft.com
    DocumentRoot /var/www/ww-site/winter-winn

    ErrorLog ${APACHE_LOG_DIR}/winn-error.log
    CustomLog ${APACHE_LOG_DIR}/winn-access.log combined

    Alias /static /var/www/ww-site/winter-winn/staticfiles
    Alias /media /var/www/ww-site/winter-winn/media

    <Directory /var/www/ww-site/winter-winn/media>
        Require all granted
    </Directory>

    <Directory /var/www/ww-site/winter-winn/staticfiles>
        Require all granted
    </Directory>

    <Directory /var/www/ww-site/winter-winn/main_project>
        <Files wsgi.py>
            Require all granted
        </Files>
    </Directory>

    WSGIDaemonProcess winn python-path=/var/www/ww-site/winter-winn:/var/www/ww-site/venv/lib/python3.8/site-packages python-home=/var/www/ww-site/venv
    WSGIProcessGroup winn
    WSGIScriptAlias / /var/www/ww-site/winter-winn/main_project/wsgi.py
</VirtualHost>
```

- (22)
- (23) `Sudo a2ensite winter-winn.conf` (if needed, `sudo a2dissite mysite.conf`)
- (24) `Sudo systemctl reload apache2` (or `sudo service apache2 stop`; `sudo service apache2 start`)
- (25) Open `winnpysoft.com`, and ensure media files can be uploaded for iTrac app.pos

Checking the logs:

`$ tail -f /var/log/apache2/winn-access.log`

`$ tail -f /var/log/apache2/winn-error.log`

Ensure the following is correct in the /etc/apache2/apache2.conf (for mod_wsgi configure, installed from source)

```
## by Marvin
LoadModule wsgi_module /usr/lib/apache2/module/mod_wsgi.so
```

Ensure in the /etc/postgresql/10/main/pg_hba.conf

```
# Database administrative login by Unix domain socket
local all postgres peer

# TYPE DATABASE USER ADDRESS METHOD

# "local" is for Unix domain socket connections only
local all all md5
# IPv4 local connections:
#host all all 127.0.0.1/32 md5
host all all 0.0.0.0/0 md5

# IPv6 local connections:
host all all ::1/128 md5
# Allow replication connections from localhost, by a user with the
# replication privilege.
local replication all peer
host replication all 127.0.0.1/32 md5
host replication all ::1/128 md5
```

Sudo systemctl restart postgresql

Environment variables:

DB_NAME,

DB_USER,

DB_HOST etc are set in the two places:

(1) /etc/environment - globally

(2) also at /etc/apache2/envvars

- the ones defined here will overwrite those defined in /etc/environment