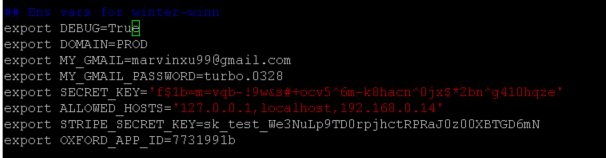
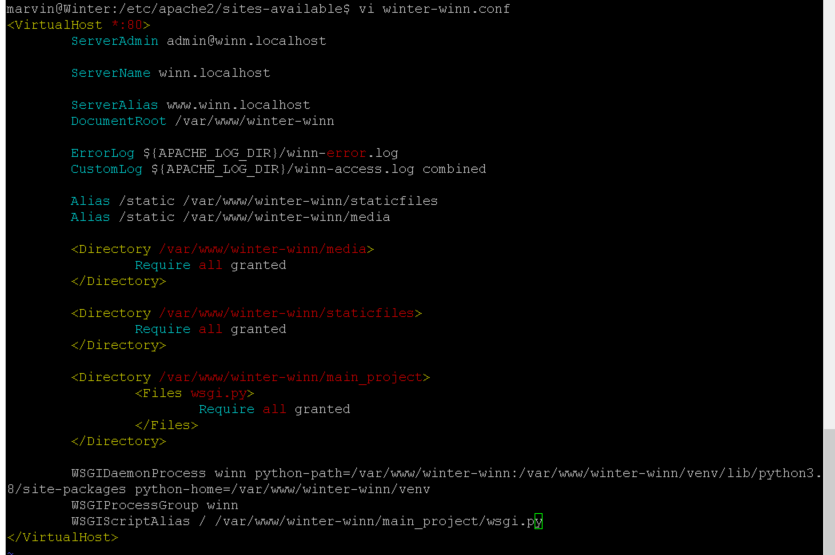
**Ubuntu 18.04 + Apache2**

**Prerequisites:**

* **Ubuntu 18.04**
* **Apchache2 – 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 chmond 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:   
    vi /ect/apache2/envvars, add the following to the bottom.  
    
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/winter-winn/venv.
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. 192.168.0.14

Checking the logs:

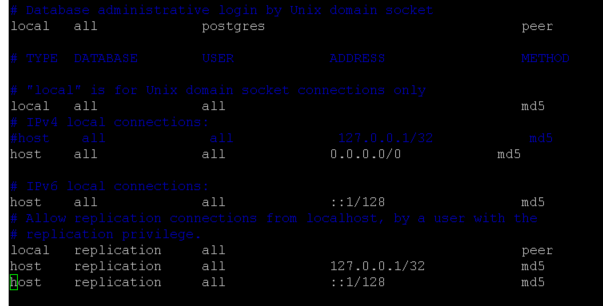
$ tail -f /var/log/apache2/winn-access.log

$ 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)



Ensure in the /etc/postgresql/10/main/pg\_hba.conf



Sudo systemctl restart postgresql