**Building a Python 3.5 Virtual Env Apache2 modWSGI and Flask Web Server – stretch base**

**Install base apache2 and utils**

* sudo apt-get install apache2 apache2-utils

**Install mod wsgi libraries**

* **http://flask.pocoo.org/docs/1.0/deploying/mod\_wsgi/**
* sudo apt-get install libapache2-mod-wsgi – for Python2.x
* sudo apt-get install libapache2-mod-wsgi-py3 for Python 3.x

**Change ownership and group of /var/www**

* cd /var/www
* sudo chown -R pi:pi ./www

**Install Virtualenv and utilities**

* **http://docs.python-guide.org/en/latest/dev/virtualenvs/**
* sudo pip install virtualenv
* sudo pip install virtualenvwrapper

**Create a Virtual Env for the web deployment**

* mkvirtualenv --python=python3.5 /var/www/my\_app/venv/
  + (uses a specific Python version)
* mkvirtualenv /var/www/my\_app/venv/
  + (uses the system default Python ie 2.x)

**Delete a Virtual Env**

* rmvirtualenv my\_app

**To activate any virtual environment and install requirements.txt**

* source /var/www/my\_app/venv/bin/activate
* pip install -r requirements.txt
* Use ‘deactivate’ to exit

**Modify the /etc/apaches/sites-available/000-default.conf file**

# Modified by Jim - Tested with mod\_WSGI and Apache2 on Rpi

#

WSGIDaemonProcess pywsgi:80 processes=2 threads=15 display-name=%{GROUP}

WSGIProcessGroup pywsgi:80

WSGIScriptAlias / /var/www/my\_app/my\_app.wsgi

Alias /static /var/www/my\_app/my\_app/static

<Directory /var/www/my\_app/ta\_pov/static>

Order allow,deny

Allow from all

</Directory>

#

# Ended Mods by Jim