**The ArQive Backend Re-Deployment:**

**Navigate using SSH to droplet:**

* Open terminal; type: ssh username@thearqive.com

\*change username to whatever your username is\*

After that, you’ll be prompted to input your password, and then you’ll be connected.

**Download and updates:**

sudo apt-get update

sudo apt-get install python3-pip apache2 libapache2-mod-wsgi-py3 //(should already be installed)

**Download and set up git repo (ex dir: home/carterb):**

git clone <https://github.com/balacarter/GlobaltraQs.git>

cd GlobaltraQs/

git checkout production

**Create and activate virtual environment (dir: home/carterb/GlobaltraQs/):**

cd GlobaltraQs/

sudo pip install virtualenv

virtualenv globaltraqs

source globaltraqs/bin/activate

**~~~For the next steps make sure the virtual environment is activated~~~**

**Install project requirements (dir: home/carterb/GlobaltraQs/):**

pip install -r requirements.txt

pip install psycopg2-binary python-decouple djangorestframework jinja2 boto3 djangorestframework-api-key django-rest-knox django-restql django-decouple Pillow

pip install --upgrade psycopg2

**Update settings.ini (dir: home/carterb/GlobaltraQs/GlobalTraqs):**

nano settings.ini

**Settings.ini should look like:**

[settings]

DEBUG=False

SECRET\_KEY=946c#sv0!y1b-$o8w)l@qd4j^7di22u4)i=5trrmj05mn40csy

NAME: defaultdb

USER: doadmin

PASSWORD: tprxmm0ducl7p42p

HOST: db-arqive-do-user-6558770-0.a.db.ondigitalocean.com

PORT : 25060

EMAIL\_USE\_TLS = True

EMAIL\_PORT = 587

EMAIL\_HOST\_USER = thearqive.reset@gmail.com

EMAIL\_HOST\_PASSWORD = DtN9mWB7FD2fnur!

**Update settings.py (dir: home/carterb/GlobaltraQs/GlobalTraqs/GlobalTraqs):**

nano settings.py

**inside ALLOWED\_HOSTS add ‘globaltraqsdev.com’,’thearqive.com’,’www.thearqive.com’**

**or you can copy it from home/carterb/settingspybk.txt**

**Make Django migrations (dir: home/carterb/GlobaltraQs/GlobalTraqs):**

python manage.py makemigrations

python manage.py migrate

**Run dev server to verify installation (dir: home/carterb/GlobaltraQs/GlobalTraqs):**

python manage.py runserver

**Update file/folder permissions (dir: home/carterb):**

sudo chown -R www-data:www-data GlobaltraQs/GlobalTraqs/

sudo chown -R www-data:www-data GlobaltraQs/

sudo chown -R www-data:www-data GlobaltraQs/globaltraqs/

**Disable site to make changes:**

sudo a2dissite backend backend-le-ssl

sudo service apache2 restart

**Update apache ssl site file configurations (dir: /etc/apache2/sites-available/):**

sudo nano backend.conf

**Update all directory references to GlobalTraqs or globaltraqs with the appropriate path to the new backend folder i.e:**

DocumentRoot /home/fadi/GlobaltraQs/GlobalTraqs/

**Becomes:**

DocumentRoot /home/carterb/GlobaltraQs/GlobalTraqs/

**And:**

WSGIScriptAlias / /home/fadi/GlobaltraQs/GlobalTraqs/GlobalTraqs/wsgi.py

**Becomes:**

WSGIScriptAlias / /home/carterb/GlobaltraQs/GlobalTraqs/GlobalTraqs/wsgi.py

**Update apache site file configurations (dir: /etc/apache2/sites-available/):**

sudo nano backend-le-ssl.conf

**Update all directory references to GlobalTraqs or globaltraqs with the appropriate path to the new backend folder i.e:**

DocumentRoot /home/fadi/GlobaltraQs/GlobalTraqs/

**Becomes:**

DocumentRoot /home/carterb/GlobaltraQs/GlobalTraqs/

**And:**

WSGIScriptAlias / /home/fadi/GlobaltraQs/GlobalTraqs/GlobalTraqs/wsgi.py

**Becomes:**

WSGIScriptAlias / /home/carterb/GlobaltraQs/GlobalTraqs/GlobalTraqs/wsgi.py

**Update apache configurations (dir: /etc/apache2/):**

sudo nano apache2.conf

**At the bottom of the file make sure that these lines point the correct directories**

WSGIPythonHome /home/carterb/GlobaltraQs/globaltraqs //Virtual Environment

WSGIPythonPath /home/carterb/GlobaltraQs/GlobalTraqs //Project root

**Re-enable apache sites:**

sudo a2ensite backend backend-le-ssl

sudo service apache2 restart

**Backend should now be re-deployed. Test by emptying cache and reloading** [**www.thearqive.com**](http://www.thearqive.com) **in browser, or try an api request through postman.**

**The error logs for apache are located in: /var/log/apache2/error.log**

**you need to be root user to access /apache2:** sudo -s