In /etc/nginx.conf in the http directive I removed older TLS protocols by changing ssl\_protocols to:

ssl\_protocols TLSv1.2 TLSv1.3;

Modified firewall to allow http alternate ports 8080 and 8008 for testing. These are permissive changes, so I also reflected them to the GCP firewall by adding the rule ‘http-alt’.

(note: <https://console.cloud.google.com/networking/firewalls/list?project=valid-ship-241608>)

# ufw allow 8080/tcp

Rule added

Rule added (v6)

# ufw allow 8008/tcp

Rule added

Rule added (v6)

These rules work, I served a testing version of our website at:

<http://35.194.71.194:8080/>

Note, the IP number must be used when browsing to the site, otherwise nginx matches the main server block and mistakenly routes the request to another location, as there is a website running at reasoningtechnology.com. Unlike in the development environment when browsing changes made to css etc do not update in the browser when the page is refreshed, until the browser cache is clear. An alternative would be to disable the browser cache.

See the doc ‘nginx uwsgi django permissions’. Here we create the mediary.

# adduser --disabled-login --gecos "" nginx\_customer\_gateway\_mediary

# usermod -a -G nginx\_customer\_gateway\_mediary www-data

# usermod -a -G nginx\_customer\_gateway\_mediary customer\_gateway

Nginx will have to be restarted and users will have to logout and log back in for the group subscriptions to take effect.

Setting up the ini file for uwsgi.

/var/www/html/customer\_gateway/uwsgi\_wsgi\_unix\_socket.ini:

[uwsgi]

chdir = /var/www/html/customer\_gateway/customer\_gateway

master = True

vacuum = True

uid = customer\_gateway

gid = customer\_gateway

socket = /home/nginx\_customer\_gateway\_mediary/socket

chown-socket = %(uid):nginx\_customer\_gateway\_mediary

chmod-socket = 660

home = /var/www/html/customer\_gateway/env

module = customer\_gateway.wsgi

logger = file:/var/www/html/customer\_gateway/uwsgi.log,maxsize=200000000

And the server conf file for customer\_gateway on nginx:

/etc/nginx/sites-available/customer\_gateway.conf

upstream wsgi\_server\_location{

server unix://home/nginx\_customer\_gateway\_mediary/socket;

# server 127.0.0.1:8001;

}

server {

listen 8080;

server\_name 35.194.71.194;

charset utf-8;

client\_max\_body\_size 75M;

location / {

uwsgi\_pass wsgi\_server\_location;

include uwsgi\_params;

}

}

Now to put the big head site back on the test page, then to add the elephant, er, ah, rather the emperor, under systemd.