1. Edit settings file to add new hosts

ALLOWED\_HOSTS = [  
........  
'yourdomain.com',  
'www.yourdomain.com',  
.........  
]

1. Test that gunicorn was installed correctly

pip install gunicorn

gunicorn --bind 0.0.0.0:8000 yourproject.wsgi

deactivate

1. Create gunicorn systemd service file

Start by creating a systemd socket file for gunicorn.

sudo nano /etc/systemd/system/gunicorn.socket

[Unit]  
Description=gunicorn socket  
[Socket]  
ListenStream=/run/gunicorn.sock  
[Install]  
WantedBy=sockets.target

Next we create a systemd service file for gunicorn with the following command:

sudo nano /etc/systemd/system/gunicorn.service

Paste this inside the file, I have highlighted in bold the sections that you need to change. Replace yourusername — with you droplet username. And make sure the path-toprojectdir is correct for the root of the project (where the manage.py file is) and the projectenv folder. These are very important

[Unit]  
Description=gunicorn daemon  
Requires=gunicorn.socket  
After=network.target  
  
[Service]  
User=**yourusername**  
Group=www-data  
WorkingDirectory=/home/**yourusername/path-to-your-projectdir**  
ExecStart=/home/**yourusername**/**path-to-your- projectdi**r/**yourprojectenv**/bin/gunicorn \  
--access-logfile - \  
--workers 3 \  
--bind unix:/run/gunicorn.sock \  
**yourproject**.wsgi:application  
  
[Install]  
WantedBy=multi-user.target

**//run this command**

sudo systemctl start gunicorn.socket  
sudo systemctl enable gunicorn.socket

You can check for the status of your gunicorn socket with:

sudo systemctl status gunicorn.socket

Check the systemd status:

sudo systemctl status gunicorn

Everytime you make changes to your python files, if you want to add or update any project file — you will need to restart the systemd files:

sudo systemctl daemon-reload  
sudo systemctl restart gunicorn

1. Configure Nginx to serve your web app

If you do not already have nginx installed:

sudo apt update  
sudo apt install nginx

Create a new server block for your project

sudo nano /etc/nginx/sites-available/**yourproject**

Inside the file, paste the following:

server {  
 listen 80;  
 listen [::]:80; server\_name **yourdomain.com www.yourdomain.com;**  
  
 location = /favicon.ico { access\_log off; log\_not\_found off; }  
 location /static/ {  
 root /home/**yourusername/path-to-youprojectdir**;  
 }  
  
 location / {  
 include proxy\_params;  
 proxy\_pass http://unix:/run/gunicorn.sock;  
 }  
}

Close the file. Enable it using the command:

sudo ln -s /etc/nginx/sites-available/**yourproject** /etc/nginx/sites-enabled

Check for nginx configurations, make sure you have no errors:

sudo nginx -t

Restart nginx:

sudo systemctl restart nginx

If you have the firewall activated, allow ngix full access:

sudo ufw allow 'Nginx Full'

1. Install PythonCertbot for SSL certificates and install an SSL certificate for your websit

sudo apt-get update  
sudo apt-get install python-certbot-nginx

Then you can install an SSL certificate for your website with just one command, pretty neat

sudo certbot --nginx -d yourdomain.com -d www.yourdomain.com