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This doc assumes	s that already serv	er is set up, if se	etting up server f	or first time https:/	/www.digitalocea

And run following commands to install necessary packages

sudo apt-get update

sudo apt-get install python3-pip python3-dev nginx docker python-certbot-nginx

Go to settings.py file

Add your domain name and localhost to ALLOWED_HOSTS

Set DEBUG=False

Change 'NAME' in 'DATABASES' to BASE_DIR / 'database/db.sqlite3'

If using Django4, add CSRF_TRUSTED_ORIGINS = ['https://domain-name']

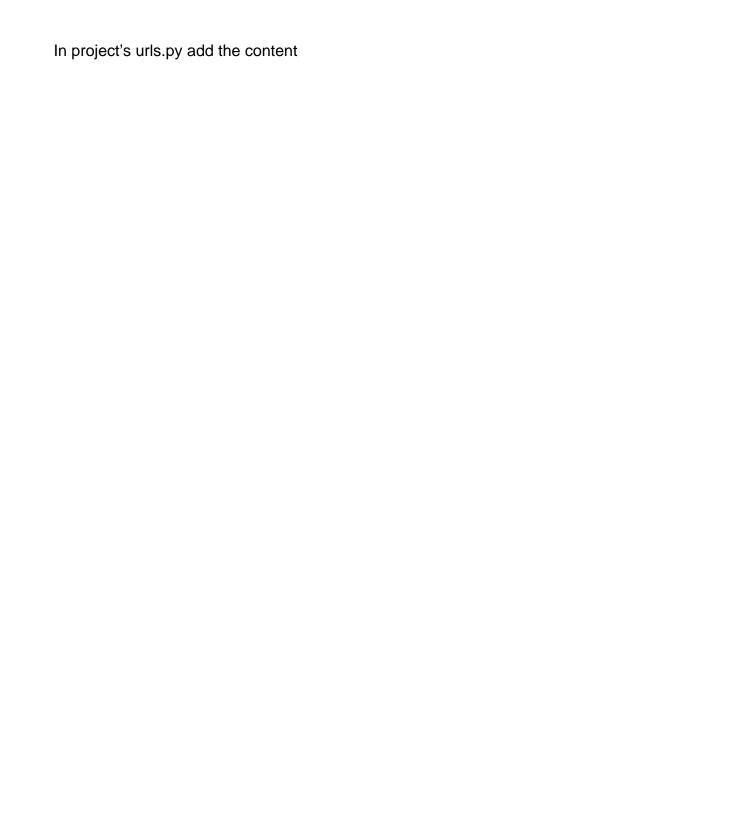
Add whitenoise

Link for reference: http://whitenoise.evans.io/en/stable/#installation

In settings.py file

STATIC_ROOT = os.path.join(BASE_DIR, 'staticfiles')

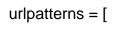
Remember whitenoise should also be present in requirements.txt



from django.conf import settings



Then modify urlpatterns to following



#your	urls.	 	 	

] + static(settings.STATIC_URL, document_root=settings.STATIC_ROOT)

Add the following to .gitignore

database

staticfiles

privkey.pem

First create the following files for the containerization:				

Dockerfile



# For more information, please refer to https://aka.ms/vscode-docker-python				

FROM python:3.8-slim-buster

Keeps Python from generating .pyc files in the container

Turns off buffering for easier container logging



COPY requirements.txt .

RUN pip install gunicorn[gevent]

RUN python -m pip install -r requirements.txt

WORKDIR /app

Creates a non-root user with an explicit UID and adds permission to access the /app folder

For more info, please refer to https://aka.ms/vscode-docker-python-configure-containers

RUN adduser -u 5678 --disabled-password --gecos "" appuser && chown -R appuser /app



CMD ["sh", "run.sh"]

docker-compose.yml



version: '3.4'

services:

project-name:

image: ccs/project-name

build:			

context: .

dockerfile: ./Dockerfile

ports:

volumes:

- ./database/:/app/database/

restart: always

Note: Here plea	ase replace pro	ject-name by	your project ı	name. Also, I	assume that t	he repository	name



python manage.py makemigrations

python manage.py migrate

python manage.py collectstatic

gunicorn	worker-o	class geve	ntcertfile=	= cert.pem	nkeyfile:	=privkey.p	embind	0.0.0.0:654	1 django-pi



SSH to gcp, in user's folder, clone the project repository.

Go to project's folder

Run command

sudo nano /etc/nginx/sites-available/project-name

Replace project-name with your project name

Now nano editor will be opened up, add the following content

server_name domain-name;

return 301 https://\$server_name\$request_uri;■

}			

listen 443 ssl;

server_name domain-name;

proxy_pass https://localhost:6541;

}			

Replace domain-name with domain name

Run command

sudo In -s /etc/nginx/sites-available/project-name /etc/nginx/sites-enabled

Please replace project-name with your project name

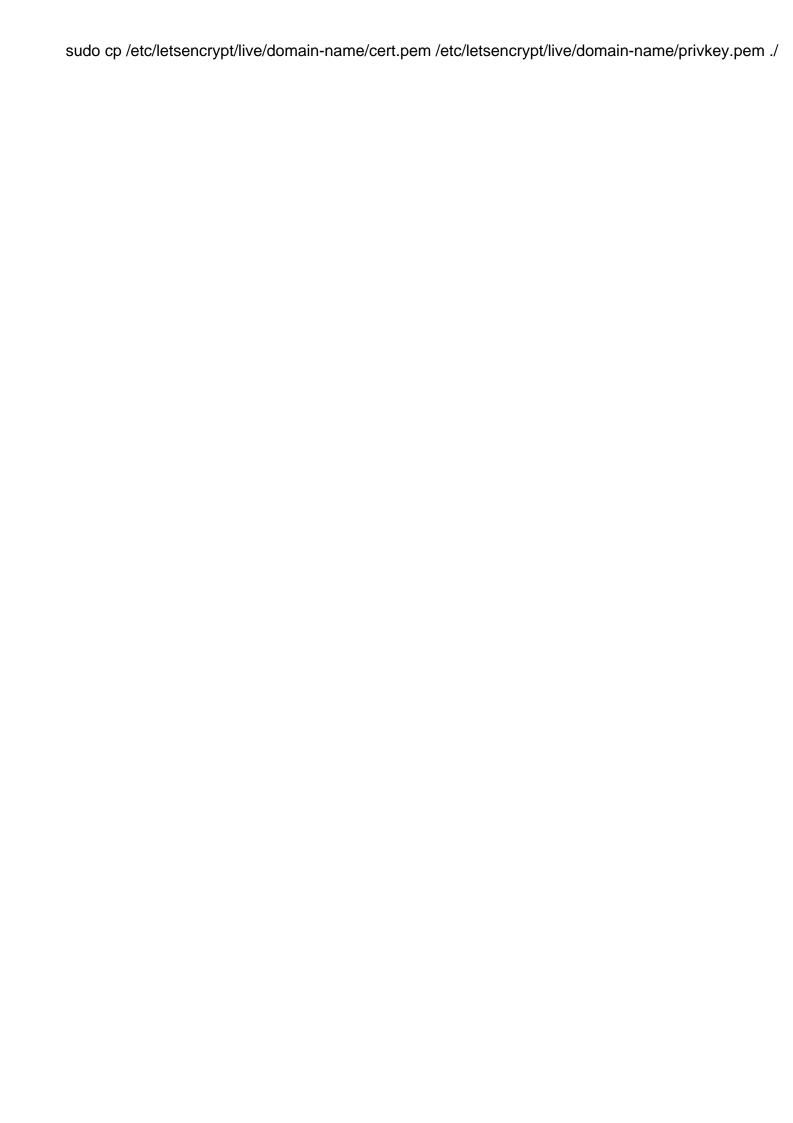
Run command:

sudo certbot --nginx -d domain-name

Replace domain-name with your domain name

If it asks for an option, enter 2, i.e. Redirect

Run command:



Replace domain-name with domain name

Run command:

sudo docker-compose up -build

After the container is successfully built, then hit Ctrl + Z

Run command

sudo docker-compose up -d -build

Run commands

sudo nginx -t

sudo systemctl restart nginx

References:

