Allgemein

IP ermitteln:

```
arp -a
```

login:

```
ssh user@ip
```

Virtual environment

```
  cd sese_project/serious-seeds
  python3 -m venv env
  source env/bin/activate
  pip install -r app/requirements.txt
```

Set Environment Variables

```
  export DJANGO_ENV=production
  export POSTGRES_DB=<db>
  export POSTGRES_USER=<user>
  export POSTGRES_PASSWORD=<pw>
```

Start Dev Server

```
    python3 manage.py runserver 0.0.0.0:8000
```

Turn off power management for network adapter

Create a new systemd service file:

sudo systemctl edit –force –full wifipower.service

Paste the following content into the file:

Code

```
  [Unit]
  Description=Disable WiFi Power Management
  [Service]
  Type=oneshot
  RemainAfterExit=yes
  ExecStart=/sbin/iw dev wlan0 set power_save off
  [Install]
  WantedBy=multi-user.target
```

Save and exit the editor.

Enable the service:

```
sudo systemctl enable wifipower.service.
```

Start the service immediately:

```
sudo systemctl start wifipower.service
```

or reboot the Pi for it to take effect:

```
sudo reboot
```

Create Database

```
sudo su postgres
psql
CREATE DATABASE <db>;
CREATE USER <user>;
ALTER USER <user> with encrypted password '<pw>';
GRANT ALL PRIVILEGES ON DATABASE <db> TO <user>;
ALTER DATABASE <db> OWNER TO <user>;
```

Deployment Checklist

- Static Files

```
python manage.py collectstatic
```

With cleanup:

```
python manage.py collectstatic --noinput --clear
```

Nginx

```
sudo nano /etc/nginx/sites-available/seriousseeds
```

Next, enable the configuration:

```
sudo ln -s /etc/nginx/sites-available/seriousseeds /etc/nginx/sites-enabled/
```

```
sudo nginx -t
sudo systemctl restart nginx
```

Analyse:

```
sudo nginx -T | sed -n '1,200p' | grep -n 'proxy_pass\|upstream'
```

Gunicorn

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

Bei Änderungen:

```
systemctl daemon-reload
sudo systemctl restart gunicorn
```

followed by a hard browser refresh (Ctrl + Shift + R).

Rollout Release

In deinem Produktionsverzeichnis

```
cd /pfad/zu/serious-seeds
```

Aktiviere Virtual Environment

```
source env/bin/activate
```

Hole neueste Tags

```
git fetch --tags
```

Liste verfügbare Tags auf

```
git tag -l
```

Checke das gewünschte Tag aus (mit lokalem Branch, um keinen detached-head zu bekommen)

```
git checkout -b production-v1.0.0 tags/v1.0.0
```

Installiere/Update Dependencies

```
pip install -r app/requirements.txt
```

Führe Migrations aus (falls nötig)

```
python app/manage.py migrate
```

Sammle Static Files

```
python app/manage.py collectstatic --noinput
```

Starte Gunicorn neu

```
sudo systemctl restart gunicorn
```

Tutorial

https://www.teachmemicro.com/building-a-django-webserver-on-raspberry-pi-a-step-by-step-guide/

https://www.digitalocean.com/community/tutorials/how-to-set-up-django-with-postgres-nginx-and-gunicorn-on-ubuntu#installing-the-packages-from-the-ubuntu-repositories

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