

## 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).

## Tutorial

<https://www.teachmicro.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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