

Web App Deployment (Frontend, Backend, DB)

1. Directory Structure

- optimec-landing/
 - frontend/
 - backend/
 - db/init.sql

2. Frontend Deployment

- Upload frontend to EC2:
`scp -i <key>.pem -r frontend ubuntu@<ip>:/var/www/optimec/`
- NGINX must point to `/var/www/optimec/index.html`

3. Backend Setup

- SSH into EC2, navigate to backend:
`cd ~/optimec-landing/backend`
- Create virtual environment and activate:
`python3 -m venv venv`
`source venv/bin/activate`
- Install requirements:
`pip install --break-system-packages -r requirements.txt`
- Run backend:
`python3 app.py`

4. PostgreSQL Setup

- Install: `sudo apt install postgresql`
- Enter DB: `sudo -u postgres psql`
- Create DB: `CREATE DATABASE optimec;`

- Import schema:

```
sudo -u postgres psql -d optimec -f ~/optimec-landing/init.sql
```

- View data: \dt and `SELECT * FROM contactos;`