

# Wishify Installation Guide

## Stack & Dependencies:

Postgres, Express, React, Node

MailGun, Google Oauth, Stripe, Certbot, python3, pytest, pm2, Nginx

### Installation

```
sudo apt update
```

```
sudo apt install nginx -y
```

```
sudo apt install postgresql
```

```
sudo apt install -y nodejs
```

```
npm install -g pm2
```

```
sudo apt install python3
```

```
pip install -U pytest
```

```
sudo apt install certbot python3-certbot-nginx -y
```

### Firewall:

```
sudo ufw allow OpenSSH
```

```
sudo ufw allow 'Nginx Full'
```

```
sudo ufw enable
```

```
sudo ufw status
```

### Download project and build

```
cd /var/www/
```

```
git clone https://github.com/Nicholas-Parise/4P02-course-project.git
```

```
cd /wishify
```

```
npm install
```

```
npm run build
```

```
cd ..
```

```
cd /backend
```

```
npm install
```

### Setup Database

```
cd /backend/database
```

```
sudo -u postgres psql
```

```
-- Inside psql shell:
```

```
CREATE USER wishify WITH PASSWORD 'make_a_secure_password';
```

```
CREATE DATABASE wishify OWNER wishify;
```

```
GRANT ALL PRIVILEGES ON DATABASE wishify TO wishify;
```

```
\q
```

```
-- now as the postgres user:
```

```
psql -d myDataBase -a -f Create-DB.sql  
exit
```

### **Webserver Setup**

```
sudo nano /etc/nginx/sites-available/wishify  
-- now paste NGINX sites-available text into this file --  
sudo ln -s /etc/nginx/sites-available/wishify /etc/nginx/sites-enabled/  
sudo nginx -t  
sudo systemctl restart nginx  
sudo certbot --nginx -d wishify.ca -d www.wishify.ca -d api.wishify.ca
```

### **Adding to ENV**

```
cd /var/www/4P02-course-project/backend/  
nano .env -- now paste the provided text into this file and fill out the values
```

### **Starting up services**

```
cd /var/www/4P02-course-project/backend/  
pm2 start server.js --name wishify-api  
pm2 status  
pm2 logs  
pm2 startup  
pm2 save
```

## NGINX sites-available:

# handle redirects http -> https

```
server {  
    listen 80;  
    server_name wishify.ca www.wishify.ca api.wishify.ca;  
    return 301 https://$host$request_uri;  
}
```

# handle traffic for front end

```
server {  
    server_name www.wishify.ca wishify.ca;  
  
    root /var/www/4P02-course-project/wishify/dist;  
    index index.html;  
  
    location / {  
        try_files $uri $uri/ /index.html;  
    }  
  
    error_page 500 502 503 504 /50x.html;  
    location = /50x.html {  
        root /var/www/html;  
    }  
  
    listen 443 ssl; # managed by Certbot  
    ssl_certificate /etc/letsencrypt/live/wishify.ca/fullchain.pem; # managed by Certbot  
    ssl_certificate_key /etc/letsencrypt/live/wishify.ca/privkey.pem; # managed by Certbot  
    include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot  
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot  
  
}
```

# handle traffic for API

```
server {  
    server_name api.wishify.ca;  
  
    location / {  
        proxy_pass http://localhost:3000; # Express API  
        proxy_http_version 1.1;  
        proxy_set_header Upgrade $http_upgrade;  
        proxy_set_header Connection 'upgrade';  
    }  
}
```

```
    proxy_set_header Host $host;  
    proxy_cache_bypass $http_upgrade;  
}
```

```
listen 443 ssl; # managed by Certbot  
ssl_certificate /etc/letsencrypt/live/wishify.ca/fullchain.pem; # managed by Certbot  
ssl_certificate_key /etc/letsencrypt/live/wishify.ca/privkey.pem; # managed by Certbot  
include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot  
ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot  
  
}
```

# ENV File

BACKEND\_URL=https://api.wishify.ca

FRONTEND\_URL=https://wishify.ca

SECRET\_KEY=

ADMIN\_USERNAME=postgres

ADMIN\_PASSWORD=

DBNAME=wishify

DBPORT=5432

DBUSERNAME=wishify

DBPASSWORD=

MAILGUN\_API\_KEY=

MAILGUN\_DOMAIN=

TEST\_MAILGUN\_DOMAIN=

GOOGLE\_CLIENT\_ID=

GOOGLE\_CLIENT\_SECRET=

STRIPE\_PUBLIC\_KEY=

STRIPE\_WEBHOOK\_SECRET=

STRIPE\_SECRET\_KEY=