Django 2.1 & Python | The Ultimate Web Development Bootcamp

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How I got gunicorn and nginx working, including finding portfolio.sock & successfully running site w/o :8000

Raymond · 7 months ago
Sorry this isn't a question, but more of a process of how I managed to finally get gunicorn/nginx working.

I've been going over videos 48-53 of the VPS section and noticed some slight changes from when the video was recorded to DigitalOcean updating their servers. Here are some updates/modifications for getting gunicorn/nginx code to work right.

Following the Digital Ocean Tutorial and cross-referencing with details in the video helped me to finally get the desired result of checking my website without :8000.

https://www.digitalocean.com/community/tutorials/how-to-set-up-django-with-postgres-nginx-and-gunicorn-on-ubuntu-18-04

Here's my breakdown in 7 steps:

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1. Create a gunicorn.socket file before the gunicorn.service file (not in vid, see tutorial):

```
$ sudo nano /etc/systemd/system/gunicorn.socket
```

```
//

[Unit]

Description=gunicorn socket

[Socket]

ListenStream=/run/portfolio.sock

[Install]

WantedBy=sockets.target
```

....

....

2. Create the gunicorn service with the 2nd parameter added to the Unit metadata:

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

```
//

[Unit]

Description=gunicorn daemon

Requires=gunicorn.socket

After=network.target
```

```
[Service]

User=djangodeploy

Group=www-data

WorkingDirectory=/home/djangodeploy/portfolio-project

ExecStart=/home/djangodeploy/myvenv/bin/gunicorn --access-logfile - --workers 3 --bind


unix:/home/djangodeploy/portfolio-project/portfolio.sock portfolio.wsgi:application


[Install]

WantedBy=multi-user.target
```

....

....

3. Run gunicorn.socket systemctl code as stated in video/blog:

```
//

sudo systemctl start gunicorn.socket

sudo systemctl enable gunicorn.socket

sudo systemctl status gunicorn.socket
```

**** Note** the portfolio.sock file **WILL** be created, but **NOT** in the portfolio-projects directory. Instead it will be created in your **home/run directory.**

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4. Nginx wasn't installed on my Ubuntu 18.04 Digital Ocean server.

Luckily they have a step-by-step guide for installing it:

https://www.digitalocean.com/community/tutorials/how-to-install-nginx-on-ubuntu-18-04

I went up to step 4 just to get it up and running. Of course you can keep going to get the most out of your nginx installation and setup.

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5. Setting up your nginx portfolio file:

```
$ sudo nano /etc/nginx/sites-available/portfolio

//

server {

    listen 80;

    server_name 'ip_address_goes_here';


    location = /favicon.ico { access_log off; log_not_found off; }

    location /static/ {

        root /home/djangodeploy/portfolio-project;

    }


    location / {

        include proxy_params;
        proxy_pass http://unix:/run/portfolio.sock;

    }

}
```

- Please note the last line for proxy_pass, the default folder has changed to /run/portfolio.sock, and not in the djangodeploy/portfolio-project if your .sock file was created in the /run directory (if you're trying to get this to work from scratch after October 2018, my guess is your .sock file will be in the /run directory).

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6. Continue to follow the video/blog with these commands:

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

sudo nginx -t

sudo systemctl restart nginx


sudo ufw delete allow 8000

sudo ufw allow 'Nginx Full'
```

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- Now when you try your IP address in the browser, it should work. However for me, it STILL didn't work due to the .socket issue.

I got this error:

```
[error] 21260#21260: *1 connect() to unix:/run/portfolio.sock failed (111: Connection refused)
```

This is why it's important to create

```
$ sudo nano /etc/systemd/system/gunicorn.socket
```

before gunicorn.service. And if you do, but just copy it from the blog, make sure your parameter inside gunicorn.socket is like this:

```
[Socket]

ListenStream=/run/portfolio.sock
```

I had it on the default 'gunicorn.sock' which is why the 111: Connection refused error kept persisting.

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7. Luckily Digital Ocean's Troubleshooting at the bottom of their tutorial covers this problem and how to fix the rest of it up:

https://www.digitalocean.com/community/tutorials/how-to-set-up-django-with-postgres-nginx-and-gunicorn-on-ubuntu-18-04

Django Is Displaying: "could not connect to server: Connection refused"

First try these 3 commands:

```
$ sudo systemctl status postgresql

$ sudo systemctl start postgresql

$ sudo systemctl enable postgresql
```

Then these:

```
$ sudo systemctl restart gunicorn
```

```
$ sudo systemctl daemon-reload
```

```
$ sudo systemctl restart gunicorn.socket gunicorn.service
```

And finally for good measure:

```
$ sudo nginx -t && sudo systemctl restart nginx
```

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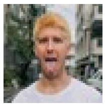
- With all this tweaked, I was able to finally get the IP address running without :8000 just like Nick did in the video.

Hope this helps!



Nick — Instructor · 7 months ago
Thanks!

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