Install Nginx, remove default site, create your site

Pre:

Deploy flask app Digital Ocean with Nginx / Gunicorn Ubuntu 16.04.3 LTS is done:

https://www.digitalocean.com/community/tutorials/how-to-serve-flask-applications-with-gunicorn-and-nginx-on-ubuntu-16-04

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Deploying Flask Apps to an Ubuntu Server:

https://www.youtube.com/watch?v=kDRRtPO0YPA

sudo apt-get update

Python 2, sudo apt-get install python-pip python-dev nginx (or just install Nginx)

Python 3, sudo apt-get install python3-pip python3-dev nginx

```
t@ubuntu-512mb-fra1-01:~# sudo apt-get install python-dev python-pip nginx
ding package lists... Done
lding dependency tree
```

Remove default Nginx (I had one more folder to remove)

```
root@ubuntu-512mb-fra1-01:/etc/nginx/sites-enabled# rm webprod root@ubuntu-512mb-fra1-01:/etc/nginx/sites-enabled# rm default root@ubuntu-512mb-fra1-01:/etc/nginx/sites-enabled# cd root@ubuntu-512mb-fra1-01:/etc/nginx/sites-available/root@ubuntu-512mb-fra1-01:/etc/nginx/sites-available# ls rock_default_default_webprod root@ubuntu-512mb-fra1-01:/etc/nginx/sites-available# rm default_root@ubuntu-512mb-fra1-01:/etc/nginx/sites-available# rm webprod root@ubuntu-512mb-fra1-01:/etc/nginx/sites-available# ls root@ubuntu-512mb-fra1-01:/etc/nginx/sites-available# ls rock_default_cot@ubuntu-512mb-fra1-01:/etc/nginx/sites-available# ls rock_default_cot@ubuntu-512mb-fra
```

Create a new file for you flask app

```
toot@ubuntu-512mb-fral-01:/etc/nginx/sites-available# sudo touch flask_settings
toot@ubuntu-512mb-fral-01:/etc/nginx/sites-available# ls
ock default flask settings
```

Make symlink

```
oot@ubuntu-512mb-fral-01:/etc/nginx/sites-available# cd
cot@ubuntu-512mb-fral-01:~# sudo ln -s /etc/nginx/sites-available/flask_setting
//etc/nginx/sites-enabled/flask_settings
cot@ubuntu-512mb-fral-01:~# cd /etc/nginx/sites-enabled/
cot@ubuntu-512mb-fral-01:/etc/nginx/sites-enabled# ls
lask_settings
```

Test Nginx configuration before / after etc

```
root@ubuntu-512mb-fra1-01:~/web# sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
root@ubuntu-512mb-fra1-01:~/web#
```

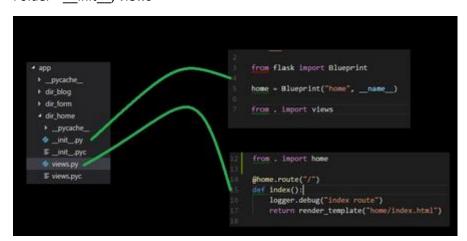
Python 2, sudo pip install virtualenv

Python 3, sudo pip3 install virtualenv

root@ubuntu-512mb-fra1-01:~# sudo pip install virtualenv

Create you Flask app (I have used blueprints in __init__.py

Folder->__init___, views



The app is called from run.py for testing

The app is called from wsgi.py for production (gunicorn)

```
GNU nano 2.5.3 File: wsgi.py

from app import app

if __name__ == "__main__":
    print("\nSuccess, system path jekl")
    app.run()
```

When you have tested and are ready to host / run the app:

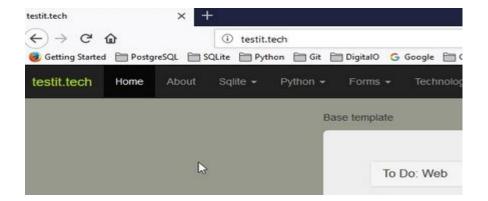
Restart and test Nginx, load activate you env, start gunicorn

sudo service nginx status / stop / start

Here, gunicorn is started with 2 workers

```
ok ] Restarting nginx (via systemctl): nginx.service.
cot@ubuntu-512mb-fra1-01:~/web# source webenv/bin/activate
webenv) root@ubuntu-512mb-fra1-01:~/web# gunicorn --workers=2 wsgi:app
(2017-12-17 14:32:56 +0000] [1513] [INFO] Starting gunicorn 19.7.1
(2017-12-17 14:32:56 +0000] [1513] [INFO] Listening at: http://127.0.0.1:8000 (1513)
(2017-12-17 14:32:56 +0000] [1513] [INFO] Using worker: sync
(2017-12-17 14:32:56 +0000] [1518] [INFO] Booting worker with pid: 1518
(2017-12-17 14:32:56 +0000] [1519] [INFO] Booting worker with pid: 1519
```

Now visit your IP or domain



Virtual envs

Start in test mode:source webenv/bin/activate

Stop test mode: deactivate

Python

Start in test mode:source webenv/bin/activate

Stop test mode: deactivate

Gunicorn

Create a wsgi.py file with the code

```
from app import app
if __name__ =="__main__":
app.run()
```

The you can perform the following:

Start your env first

(myprojectenv) \$ gunicorn --bind 0.0.0.0:port wsgi:app

(myprojectenv) \$ deactivate

Templates / Static not loading after SFTP, stop gunicorn and start it again

Linux

sudo lsof -i:port / sudo lsof -i:8000

kill pid

Not finding pid?, pkill gunicorn