generate SSH Key then copy to clipboard
```
ssh-keygen -t rsa
```

copy to clipboard Mac
```
pbcopy < ~/.ssh/id_rsa.pub
```

copy to clipboard Ubuntu
```
sudo apt install xclip
cat ~/.ssh/id_rsa.pub | xclip -sel clip
```

connect to server
```
ssh root@[IP_ADDRESS]
```

User Creation

create user and assign root privileges
```
adduser bucky
usermod -aG sudo bucky
```

switch to new account
```
su - bucky
mkdir ~/.ssh
chmod 700 ~/.ssh
vim ~/.ssh/authorized_keys
```

Paste in public key from clipboard

update permissions on authorized_keys
```
chmod 600 ~/.ssh/authorized_keys
```

exit and log in as new user
```
exit
exit
ssh bucky@[IP_ADDRESS]
```

Install Dependencies

update and install packages
```
sudo add-apt-repository -y ppa:jonathonf/python-3.6
sudo apt -y update
sudo apt -y upgrade
sudo apt -y install build-essential nginx python3.6 python3.6-dev
```

point python and pip to 3.6
```
wget https://bootstrap.pypa.io/get-pip.py
sudo python3.6 get-pip.py
rm get-pip.py
sudo ln -s /usr/bin/python3.6 /usr/local/bin/python
```

Firewall

```
sudo ufw app list
sudo ufw allow 'Nginx Full'
sudo ufw allow OpenSSH
sudo ufw enable
```

verify that firewall is active and nginx is running
```
sudo ufw status
systemctl status nginx
```

You should now be able to visit your server's public IP address and see the welcome page.

Project Setup

clone project to server
```
cd
git clone https://github.com/buckyroberts/Vataxia.git
cd Vataxia/
sudo pip install -r requirements/local.txt
```

set up database
```
python manage.py makemigrations
python manage.py migrate
python manage.py createsuperuser
python manage.py collectstatic
```

NGINX

```
sudo rm /etc/nginx/sites-available/default
sudo vim /etc/nginx/sites-available/default
```

```
upstream django {
      server 127.0.0.1:8001;
}

server {
      listen        80 default_server;
      server_name    locahost;
      charset        utf-8;

      # max upload size
      client_max_body_size 75M;

      # Django media
      location /media {
            alias /home/bucky/Vataxia/media;
      }

      location /static {
            alias /home/bucky/Vataxia/static;
      }

      # Send all non-media requests to the Django server
      location / {
            uwsgi_pass django;
```

```
            include /home/bucky/Vataxia/uwsgi_params;
        }

}
```

test configuration
sudo nginx -t

---

systemd

create script to run uwsgi
sudo vim /usr/local/bin/start_api.sh

```
#!/bin/bash

cd /home/bucky/Vataxia
uwsgi --ini app.ini
```

update permissions for shell script
sudo chmod a+x /usr/local/bin/start_api.sh

---

create service
sudo vim /etc/systemd/system/api.service

```
[Unit]
Description = Service to run Django API
After = network.target

[Service]
ExecStart = /usr/local/bin/start_api.sh

[Install]
WantedBy = multi-user.target
```

update permissions for file
sudo chmod a+x /etc/systemd/system/api.service
sudo systemctl enable api

verify it is enabled
ls /etc/systemd/system/multi-user.target.wants/

---

start API service, restart NGINX, and verify services are active
sudo systemctl start api
sudo systemctl restart nginx
systemctl status api nginx