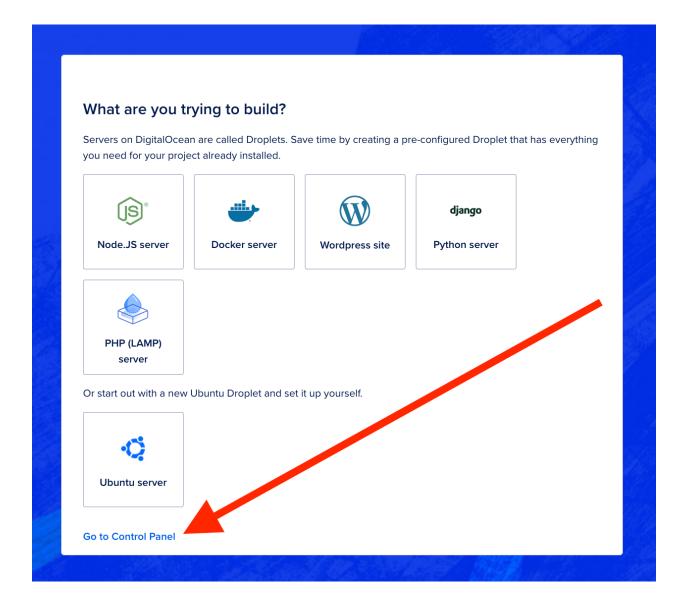
https://learnwagtail.com/launch-your-wagtail-website-digital-ocean-ubuntu-18/

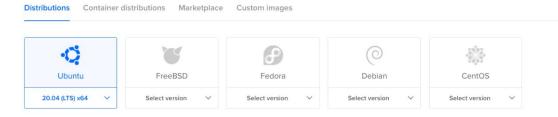


YOUTUBE Videos by Chris Bocchino

Street Card MobaXterm Setup: https://youtu.be/hpsf-SXKf k

Street Card SSH Connections: https://youtu.be/bzkw-8dA8Gw

Choose an image 🔞



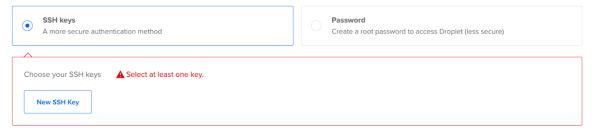


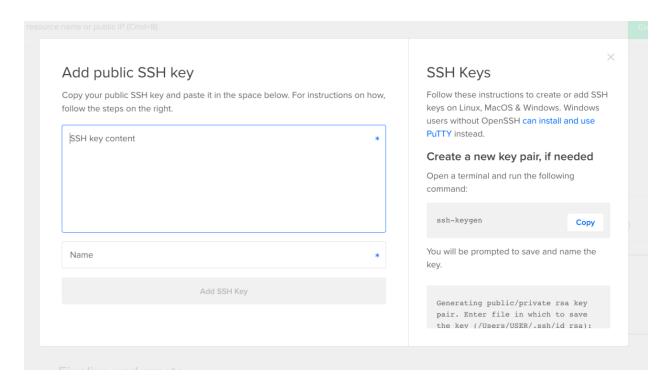


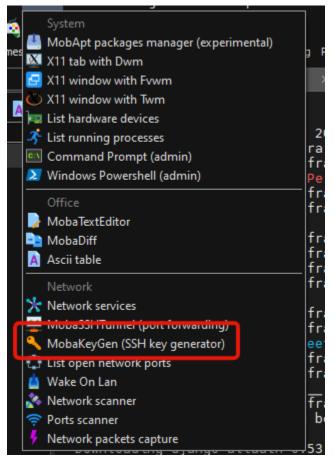
1 Our Basic Droplet plans, formerly called Standard Droplet plans, range from 1 GB of RAM to 16 GB of RAM. General Purpose Droplets have more overall resources and are best for production environment, and Memory-Optimized Droplets have more RAM and disk options for RAM intensive applications.

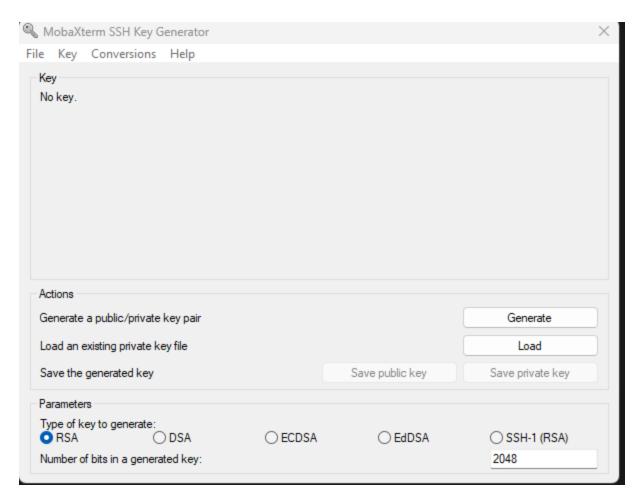
Each Droplet adds more data transfer to your account.

Authentication ?









Generate a Public and Private key and passphrase "RSA" 2048 bits. Save both. Paste the public key to above digital ocean account box.

Finalize and create

How many Droplets? Choose a hostname Deploy multiple Droplets with the same configuration. Give your Droplets an identifying name you will remember them by. Your Droplet name can only contain alphanumeric characters, dashes, and periods. 1 Droplet ubuntu-s-1vcpu-1gb-nyc1-01 Add tags Use tags to organize and relate resources. Tags may contain letters, numbers, colons, dashes, and underscores. Type tags here Select Project Assign Droplets to a project erin Add backups Enable backups RECOMMENDED \$1.00/mo (per Droplet) A system-level backup is taken once a week, and each backup is retained for 4 weeks. 20% of the Droplet price Resources Activity Settings DROPLETS (1) 167.172.146.33 ubuntu-s-1vcpu-1gb-nyc1-01 **()** Create something new Learn more Create a Managed Database art using Spaces **Product Docs** Worry-free database management iver data with scalable object storage Technical overviews, how-tos, release notes, and support material Spin up a Load Balancer مئ Tutorials Distribute traffic between multiple Droplets DevOps and development guidelines API Docs Build on what you have Run your resources programmatically Ask a question Build a Node.js application erized with Docker Go cor Connect, share and learn Set up a Node.js application for production Install a ise Docker containers to build on Ubuntu d applications Build a PHP web application Install Linux, Apache, MySQL, PHP (LAMP) on DigitalOcean 1-Click App

- · Create a new Ubuntu 18 Droplet
- · You'll need your Droplet IP address

ssh root@167.172.xxx.xx

· Create a new user on your new ubuntu server

adduser newuser

· Give your new user admin privileges

usermod -aG sudo newuser

· Make sure OpenSSH is enabled

ufw app list ufw allow OpenSSH ufw enable ufw status

· Copy your root SSH Key to the new Ubuntu user account

rsync --archive --chown=newuser:newuser ~/.ssh /home/newuser

· SSH into your server as your new Ubuntu user (don't use root)

exit your ssh session with ctrl + d ssh newusen@167.172.xxx.xx

Update Ubuntu

sudo apt update

sudo apt install python3-pip python3-dev libpq-dev postgresql postgresql-contrib nginx curl

· Log into a postgres session

sudo -u postgres psql

· Create a new database

CREATE DATABASE your_db_name;

· Create a new postres user with a password

CREATE USER your_db_user WITH PASSWORD 'your_db_password';

· Alter the postgres role

```
ALTER ROLE your_db_user SET client_encoding TO 'utf8';
ALTER ROLE your_db_user SET default_transaction_isolation TO 'read committed';
ALTER ROLE your_db_user SET timezone TO 'UTC';
```

· Make the postgres user an admin

GRANT ALL PRIVILEGES ON DATABASE your_db_name TO your_db_user;

Quit postgres

۱q

· Upgrade pip and install virtualenv

sudo -H pip3 install --upgrade pip && sudo -H pip3 install virtualenv

Create a new project directory

mkdir ~/yourprojectname && cd ~/yourprojectname

Clone your project from github into this directory

git clone https://github.com/your-repo-url/ .

Create a new virtualenv

virtualenv .venv

Activate your virtualenv

source .venv/bin/activate

· Install gunicorn and psycopg2-binary

pip install gunicorn psycopg2-binary

· Install your project requirements

```
pip install -r requirements.txt
```

· Collect static with:

python manage.py collectstatic --settings=yourprojectname.settings.production

· Re-run your server with

python manage.py runserver 0.0.0.0:8000 --settings=yourprojectname.settings.production At this point you should see migrations are required.

· Cancel your server and run it normally with

Set the DJANGO SETTINGS MODULE with:

export DJANGO SETTINGS MODULE='yourprojectname.settings.production'

Re run the server and we no longer need to specify a settings file

Apply migrations

python manage.py migrate

· Create a new superuser

python manage.py createsuperuser

· Allow port 8000 through ufw

sudo ufw allow 8000

· Run the server on port 8000 and preview it

python manage.py runserver 0.0.0.0:8000

Go to http://167.172.xxx.xx:8000/ and you'll see it at least loads. It'll look terrible, but it works!

The site now only work on port 8000. That's no good. We need it to run all the time.

· Make sure your in your main directory

cd ~/yourprojectname

• Run gunicorn on port 8000

gunicorn --bind 0.0.0.0:8000 yourprojectname.wsgi

- Preview your site on port 8000 again, but notice this time we are running it with gunicorn Go to http://167.172.xxx.xx:8000/ and you'll it loads.
- · Cancel gunicorn and deactivate your virtualenv

ctrl + c and deactivate

· Create a gunicorn socket file

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

```
Add this to it:
   [Unit]
  Description=gunicorn socket
  [Socket]
  ListenStream=/run/gunicorn.sock
  [Install]
   WantedBy=sockets.target
· Create a systemd file for gunicorn with sudo privileges
   sudo nano /etc/systemd/system/gunicorn.service
   And add this into it:
  [Unit]
  Description=gunicorn daemon
   Requires=gunicorn.socket
  After=network.target
  [Service]
   WorkingDirectory=/home/newuser/yourprojectname
  {\tt ExecStart=/home/newuser/yourprojectname/.venv/bin/gunicorn} \  \, \backslash \\
```

WantedBy=multi-user.target

• Start and enable the gunicorn

[Install]

sudo systemctl start gunicorn.socket && sudo systemctl enable gunicorn.socket

· Check the status of the process with:

--access-logfile - \

--bind unix:/run/gunicorn.sock \
yourprojectname.wsgi:application

sudo systemctl status gunicorn.socket

Should say active listening

· Check the existence of the new socket file

file /run/gunicorn.sock

· Check the gunicorn status with

sudo systemctl status gunicorn

You should see INACTIVE DEAD

Test the socket activation with a curl command

curl --unix-socket /run/gunicorn.sock localhost

You should see the html output of your site.

If you didnt, something is wrong with gunicorn. Double check your wsgi.py file, double check the gunicorn paths.

· At this point it doesnt hurt to restart gunicorn with

sudo systemctl daemon-reload && sudo systemctl restart gunicorn

· Create a new server block in nginx

```
sudo nano /etc/nginx/sites-available/yourprojectname And add this:
server {
   listen
           80;
   listen [::]:80;
   server_name 167.172.xxx.xx;
   charset UTF-8;
   error_log /home/newuser/yourprojectname/nginx-error.log;
   location = /favicon.ico { access_log off; log_not_found off; }
   location /static/ {
       alias /home/newuser/yourprojectname/static/;
   location /media/ {
       alias /home/newuser/yourprojectname/media/;
   location / {
      include proxy_params;
       proxy_pass http://unix:/run/gunicorn.sock;
   }
```

· Create a file by linking it to the sites-enabled directory

sudo ln -s /etc/nginx/sites-available/yourprojectname /etc/nginx/sites-enabled

· Test nginx with:

sudo nginx -t

· If there were no errors, restart nginx

sudo systemctl restart nginx

· Open the firewall to normal traffic with Nginx, and delete port 8000

sudo ufw delete allow 8000 && sudo ufw allow 'Nginx Full'

If NGINX shows the welcome to nginx page, double check your server_name ip in your nginx config file (the one we created earlier).

Add your IP to your domain DNS.

When launching your website update your nginx settings

sudo nano /etc/nginx/sites-available/yourprojectname Replace 167.172.xxx.xx with yourwebsite.com

· Test nginx settings with

sudo nginx -t

Restart nginx with

sudo systemctl restart nginx

· Add your new domain to your allowed hosts

sudo nano yourprojectname/settings/production.py Add yourwebsite.com to the ALLOWED_HOSTS and Remove the ip address of 167.172.xxx.xx

- · Add 167.172.xxx.xx to your domain DNS settings and wait for it to propogate
- · View your new website at yourwebsite.com
- Update the wagtail site settings

Go to http://yourwebsite.com/admin/sites/2/ and: change localhost to yourwebsite.com