The purpose of this document is to set up a Droplet on Digital Ocean. The Droplet will host a website and make it available to the general public. Successful completion will involve creating several components and have them interact with each other.

There will be:

A Repository on Github.

A Droplet on Digital Ocean.

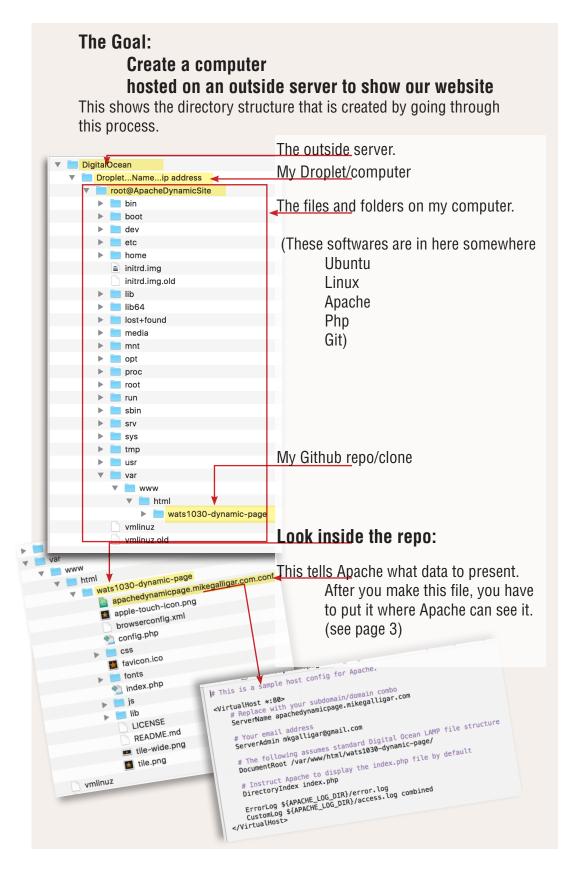
A sub-domain.

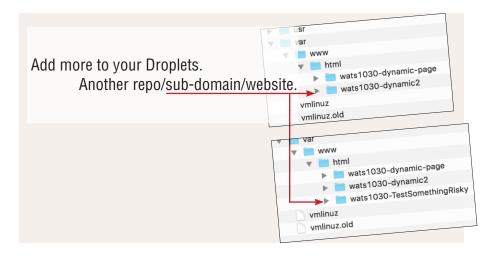
The repository on Github contains the files that make-up a website.

The Droplet will host the website.

The Sub-domain receives a copy of the Droplet's ip address, this will point the Internet to the droplet so the website can be viewed.

To make everything work, the Droplet will need several programs. Some of these programs will be configured to perform the task of presenting the site. Then the website files will be cloned from Github to the Droplet. At this point, a site visitor can enter our sub-domain.com in a browser, and they will be taken to the site. A lot of this configuring will take place in Terminal. We use Terminal to send codes and files to the Droplet so it performs in the way we want.





# The Componets:

### Digital Ocean

Runs/Has: Droplet SSH Key ip address Ubuntu LAMP

Git Repo from Github

## Github

Runs/Has: Repository

Copy of Droplet's SSH Key

This allows Git & This Droplet to interact.

### Domain

Runs/Has:

Sub-domain

Copy of Droplet's ip address

Because of this, when you type:

## sub-domain.domain

You will be taken to see what's in the Droplet/ What the Droplet has been configured to show you.

#### **Terminal:**

What to do in Terminal?

You have a Droplet, a Sub-domain, and a Github repository. Now what?

If you started correctly the droplet already has Ubuntu and LAMP stack.

- 1) Install Git on the Droplet.
- 2) Configure Git.
- 3) Create SSH Key on the Droplet.

Copy the public SSH Key to your Github account. This allows the Droplet & Git to interact.

4) Clone the Git repository to the Droplet.

Change the directory into...~/var/www/html/Your Clone

5) Configure the virtual host files.

so Apache shows this repo when:

sub-domain.domain is typed into a web browser

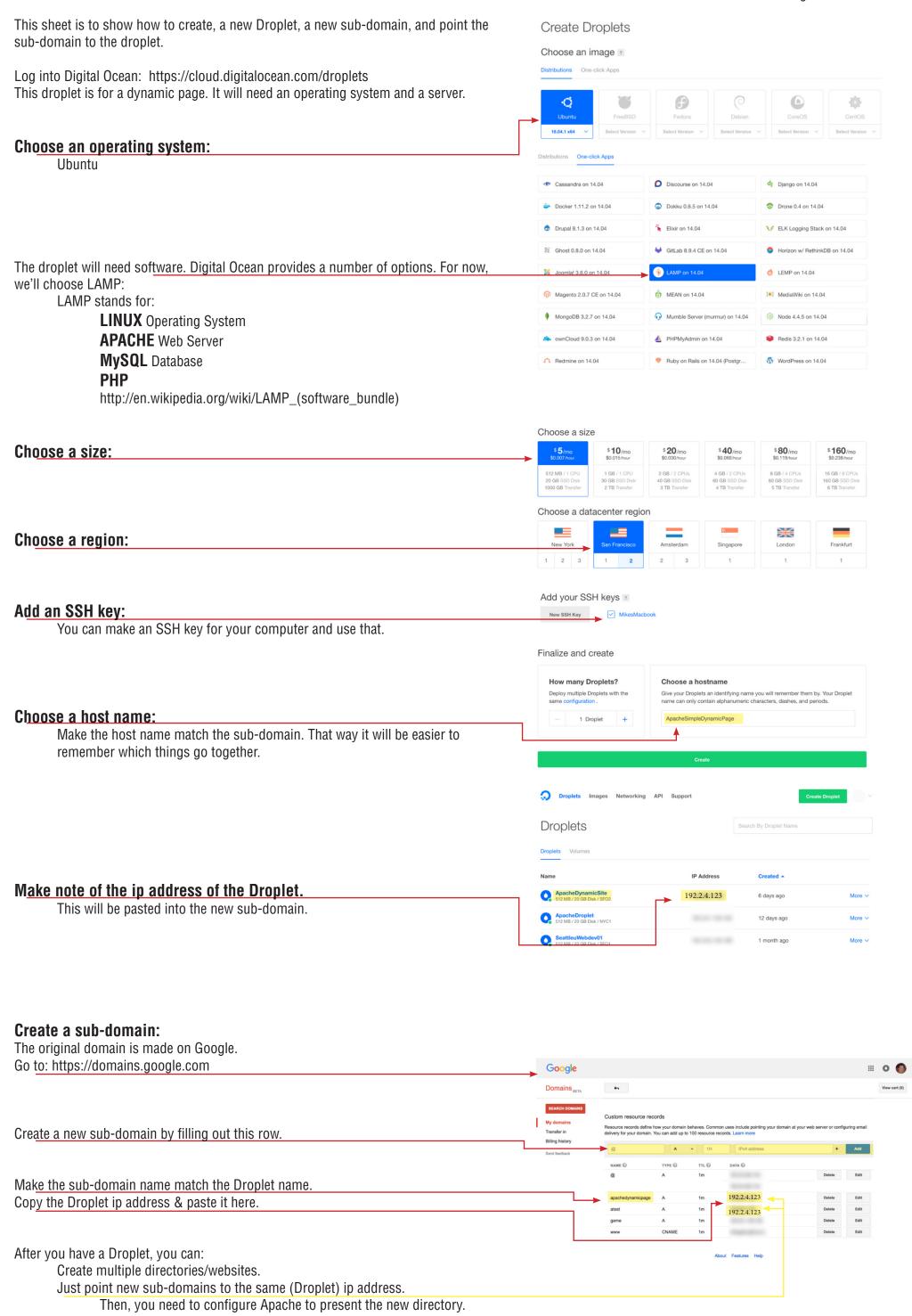
If you want to put more repositories in this droplet, Make a new sub-domain.

With the Droplet's ip address.

Make a clone of another new repository.

#### **Configure Apache:**

In the Droplet find the file: 000-default.conf Modify, Re-name, & move this file (see page 3): sub-domain.domain.com.conf



This sheet is to show how to configure Apache and Git for a new droplet.

