Digital Ocean Domain & Git Overview Cheat Sheet

Github
Runs/Has
Repoisitory
Copy of Droplet's SSH Key
This allows Git & This Droplet to interact.

Domain
Runs/Has
Subdomain
Copy of Droplet's ip address
Because of this, when you type:
Subdomain. **Domain**
You will be taken to see what's in the Droplet/ What the Droplet has been configured to show you.

Digital Ocean
Runs/Has
ip address
Droplet
Ubuntu
LAMP
Git
Repo from Github
SSH Key

Terminal

What to do in Termainl?
You have, a Droplet, a Subdomain, 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 interract.
4) Clone the Git repository to the Droplet.
Make it go into the root~/var/www/html/**Your Clone**
5) Configure Apache to Show this repository when:
Subdomain. **Domain** is typed into a web browser

If you want to put more repositories in this droplet,
Make a new subdomain.
With the Droplet's ip address.
Make a clone of the new repository.
Configure Apache using the file:
Subdomain.Domain.com.conf

Add more to your Droplets.
Another repo/subdomain/website.

The Goal:
Create a computer
hosted on an outside server
This shows the directory structure that is created by going through this process.

The outside server.
My Droplet/computer

The files and folders on my computer.

(These softwares are in here somewhere
Ubuntu
Linux
Apache
Php
Git)

```
▼  DigitalOcean
  ▼  Droplet...Name...ip address
    ▼  root@ApacheDynamicSite
      ►  bin
      ►  boot
      ►  dev
      ►  etc
      ►  home
         initrd.img
         initrd.img.old
      ►  lib
      ►  lib64
      ►  lost+found
      ►  media
      ►  mnt
      ►  opt
      ►  proc
      ►  root
      ►  run
      ►  sbin
      ►  srv
      ►  sys
      ►  tmp
      ►  usr
      ▼  var
        ▼  www
          ▼  html
            ►  wats1030-dynamic-page
         vmlinuz
         vmlinuz.old
```

My Github repo/clone

Look inside the repo:

This tells Apache where to go.
After you make it, you have to put it where Apache can see it.
(DigitalOcean_03ApacheNGit.pdf)

```
var
  www
    html
      wats1030-dynamic-page
         apachedynamicpage.mikegalligar.com.conf
         apple-touch-icon.png
         browserconfig.xml
         config.php
      ►  css
         favicon.ico
      ►  fonts
         index.php
      ►  js
      ►  lib
         LICENSE
         README.md
         tile-wide.png
         tile.png
   vmlinuz
```

```
# This is a sample host config for Apache.

<VirtualHost *:80>
    # Replace with your subdomain/domain combo
    ServerName apachedynamicpage.mikegalligar.com

    # Your email address
    ServerAdmin mkgalligar@gmail.com

    # The following assumes standard Digital Ocean LAMP file structure
    DocumentRoot /var/www/html/wats1030-dynamic-page/

    # Instruct Apache to display the index.php file by default
    DirectoryIndex index.php

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

```
usr
  var
    www
      html
        ►  wats1030-dynamic-page
        ►  wats1030-dynamic2
   vmlinuz
   vmlinuz.old
```

```
var
  www
    html
      ►  wats1030-dynamic-page
      ►  wats1030-dynamic2
      ►  wats1030-TestSomethingRisky
   vmlinuz
   vmlinuz.old
```