Digital Ocean Configure Git & Apache Cheat Sheet

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

Use a command line to connect to the droplet. The following commands will install & configure Git on the droplet. Git needs to be installed at the root level of the Droplet. When done, you can start cloning Git repositories to the droplet.

Note:

Git repos should cloned into ~/var/www/html/**Name-of-repo**
In this example it will be:
        root@**NameofDroplet**:/var/www/html/**wats1030-dynamic-page**

The root in this example uses the name of the Droplet.
root@ApacheDynamicSite:/var/www/html/wats1030-dynamic-page

From Terminal:
Connect to the droplet:
      ssh root@**ip address**

INSTALL GIT TO THE DROPLET.
root@ApacheDynamicSite:~# sudo apt-get install git

SET GIT ON THIS DROPLET TO USE THIS NAME.
root@ApacheDynamicSite:~# git config --global user.name **"Name"**

SET GIT ON THIS DROPLET TO USE THIS EMAIL.
root@ApacheDynamicSite:~# git config --global user.email **"email"**

CREATE SSH KEY
root@ApacheDynamicSite:~# ssh-keygen -t rsa -b 4096 -C **"email"**

CREATE SPECIFIC ID FOR SSH
root@ApacheDynamicSite:~# eval "$(ssh-agent -s)"

ADD ID TO THE SSH KEY
root@ApacheDynamicSite:~# ssh-add ~/.ssh/id_rsa

SHOW ME THE PUBLIC SSH KEY. SO I CAN PASTE IT INTO GITHUB.COM
root@ApacheDynamicSite:~# cat ~/.ssh/id_rsa.pub

CHANGE TO WEB ROOT DIRECTORY
root@ApacheDynamicSite:~# cd ..
root@ApacheDynamicSite:~# cd /var/www/html

CLONE MY GIT FORK INTO MY DROPLET.
root@ApacheDynamicSite:/var/www/html/wats1030-dynamic-page#
        git clone git@github.com:MikeGalli/wats1030-dynamic-page

      CHECK YOUR WORK.
          root@ApacheDynamicSite:/var/www/html/wats1030-dynamic-page# ls
      THE CLONE IS HERE!
          wats1030-dynamic-page

Next, Configure Apache to present the info in this droplet/this directory
This exercise contains sample files. Some of these files are the website we want to present, others are used to tell Apache what to do.
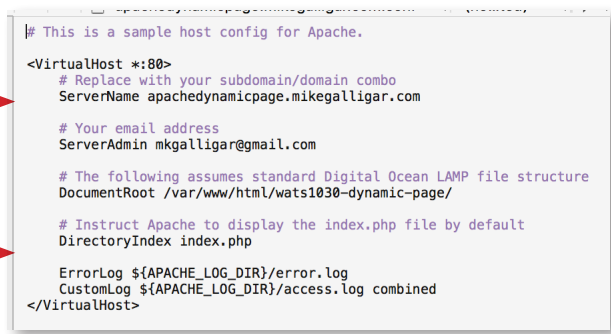
OPEN THE PROVIDED SAMPLE FILE AND MODIFY IT
root@ApacheDynamicSite:/var/www/html/wats1030-dynamic-page# less sample.host.config.conf

MOVE / RENAME THE SAMPLE FILE USE SUB-DOMAIN+DOMAIN, JUST TO MAKE IT EASY TO KNOW WHAT PIECES GO TOGETHER
root@ApacheDynamicSite:/var/www/html/wats1030-dynamic-page# mv sample.host.config.conf
subdomain.domain.com.conf

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# 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>
```

COPY THE NEW CNFG FILE TO A PLACE APACHE KNOWS ETC/APACHE2/SITES-AVAILABLE
root@ApacheDynamicSite:/var/www/html/wats1030-dynamic-page# cp **subdomain.domain.com**.conf / etc/apache2/sites-available/.

TELL APACHE, THIS IS THE DEFAULT CONFIG TO USE.
root@ApacheDynamicSite:~# sudo a2ensite **subdomain.domain.com**.conf

RE-START APACHE
root@ApacheDynamicSite:~# service apache2 reload