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/**NameofRepo**

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
Go to: Github.com/settings/SSH and GPG keys
Use a title that helps you remember what this key is for.
Paste the key here.

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:**GithubUserName**/**GithubRepo**

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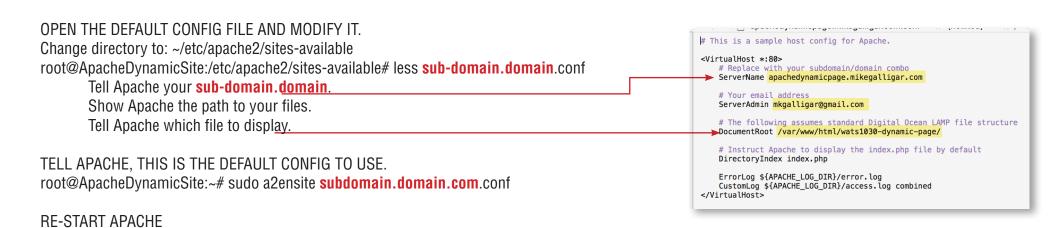THE CLONE IS HERE!
wats1030-dynamic-page

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.

COPY MOVE & RE-NAME THE DEFAULT APACHE CONFIG FILE
cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/**sub-domain.domain.com**.conf
This will put the config file where Apache can find it.

OPEN THE DEFAULT CONFIG FILE AND MODIFY IT.
Change directory to: ~/etc/apache2/sites-available
root@ApacheDynamicSite:/etc/apache2/sites-available# less **sub-domain.domain**.conf
Tell Apache your **sub-domain.domain**.
Show Apache the path to your files.
Tell Apache which file to display.

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

root@ApacheDymanicSite:~# cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAACAQDBVGMV+yk3CeUv/qR+CFeX0yuodA+6Hz1OzUxfhGUOrO
0AqJOZipsJbWi87dtrB76xW1h+KiPWaM5hy9dMYE1hiYtOnTpIWEJ/PaMrOt2410Bw04NTdnPociNcRfgS
Dho9upBPEx596s2nkRQKhjhXyLa8ykBIEnBllE8I1e+N8TGzgGxAlHlEfdAZQN61u5bWNHfL8AqEijJN2g
EFh4gY10j1Lxy7/vbJ2naZ02O2WMKhIACaK+mlOHm5kMii5kxrcNSvTUEdmYXmx42ptxlnFFAwarpqtOh9
fd7Fd90eZb0d+5vBkdH+4iM9Jz7NK2X/nku1sF95mLBAzJAfUk9z3NFw/3/cPWemQqeq8CT+cHIDtKa08G
YX6oPd2DPsHq0Yf0t397WAuO7VQzbHikNVs4a2V+YLo84XxlCRGStTnaYE/zfWUUFCj866wi3Jwb5d8abS
9qCv88K66Lu3ZcnP+CM0s722o4iOQEaHjAkRpMOMJY6uNyqrGtRGdg6VEcEvLwnCe1c2jm1KVq5QMGeq8v
HJCx3HOz/qqhqgu/yQl+cdTqG2/VSL9pZeQfQLMJYD1hcMutKBbBdAlq/0Wi2Nt4fasFx5z1mV4r/jo00k
DcMcvfWUCAsACKgg8d4EypxzknjXYbMvL7ml7a2/NQ== mkgalligar@gmail.com
root@ApacheDymanicSite:~#

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>

Personal settings
Profile
Account
Emails
Notifications
Billing
SSH and GPG keys
Security
OAuth applications
Personal access tokens
Repositories
Organizations

Signed in as Mike(
Your profile
Your stars
Explore
Integrations
Help
Settings
Sign out

ApacheDymanicSite
Fingerprint: 1c:c2:ef:3b:78:d4:de:94:67:44:54:d8:92:2f:dd:b8
Added on Jul 26, 2016 — Last used within the last 2 weeks

Title

Key
Begins with 'ssh-rsa', 'ssh-dss', 'ssh-ed25519', 'ecdsa-sha2-nistp256', 'ecdsa-
'ecdsa-sha2-nistp521'

Add SSH key