Setting Up SSH

SSH directions on github

Linux Setup

Generate key

- `ssh-keygen -t rsa -b 4096 -C "your_email@example.com"`
  - enter a file name or press enter to accept default
  - enter passphrase (twice)

Set permissions

This applies to new or existing private and public keys in .ssh folder

- Home directory: `cd ~`
  - `sudo chmod 700 .ssh`
- .ssh directory: `cd .ssh/`
  - `sudo chmod 644 id_rsa.pub`
  - `sudo chmod 600 id_rsa`

Add key to ssh-agent

- `eval "$(ssh-agent -s)"`
- `ssh-add ~/.ssh/id_rsa`

Github

- login into github
- go to setting -> SSH and GPG keys
- Select New SSH key
- Follow direction to upload new or existing public key

Test

- Set remote to point to ssh github repo path (as opposed to https)
- fetch and push repo to verify proper setup
  - Enter passphrase first time for ssh agent

Windows

Install PuTTYgen

www.puttygen.com/

- Install PuTTYgen (if not already installed)
  - Reboot Windows
- Open PuTTYgen
  - load id_rsa generated from Ubuntu
  - Enter Passphrase
  - Save as .ppk file
- open repo in Git Extension
- go to Repository -> Remote repositories
  - Replace https URL with SSH URL
  - browse to .ppk file
  - Load SSH key

- open a terminal and try to push and fetch, it should prompt for passphrase
- Push from Git Extensions
- Open bash to add key to ssh-agent in windows

    - eval `ssh-agent -s`
    - ssh-add ~/.ssh/*_rsa