# Tooling Setup Assignment

In this assignment there will be a series of tools you need to install and complete small tutorials. Copy this Markdown document and insert screenshots of the software installed. Assignment worth 100 points 10 items, 10 points each.

## Sign Up for a GitHub.com Account

If you have not already signed up for a [GitHub.com](https://github.com) account, do so. We recommend using your name or some combination of your name, not your Hawk ID as this account is yours the rest of your life. Once you have your ID, submit it on BlackBoard under Assignments > Tooling > GitHubID. If you already have an ID, then just submit that ID.

## Installation of PowerShell Core for Windows

If you have a Windows 10 system, make sure that the native SSH client and [PowerShell Core 6](https://github.com/PowerShell/PowerShell/releases/tag/v6.2.3) are installed. Add screenshot of the output of: ssh -V and open the PowerShell 6 (darkblue screen) and the version is shown in the top line. For Mac, you have Bash and SSH already installed, place a screenshot of the output of ssh -V and bash --version

This link provides information on installing Bash 5.0 on MacOS and activating it to replace Bash 3.x <https://www.ioannispoulakas.com/2019/03/10/how-to-install-bash-5-on-macos/>

## Package Managers for Windows and MacOS

Brew is the MacOS 3rd party package manager located at: <https://brew.sh/>. [Chocolatey.org](https://chocolatey.org/) is the Windows 3rd party package manager. Place screenshot of the version command output for: choco --version or brew --version

## Install Git

Using the package manager from the previous step, install the Git Client if you do not already have it installed. **Note**, this is different from the GitHub Desktop tool, which we will not be using this semester. Place a screenshot of the output of the command: git --version

You will need to configure Git if you already haven’t done so. From a shell run these two commands:

git config --global user.name "<Your Name>"  
git config --global user.email "<youremail@example.com>"

## Install VirtualBox

If you do not already have VirtualBox 6.x installed, use the package manager to install VirtualBox. Take a screenshot of the VirtualBox > Help > About VirtualBox output. If you have 6.0.x at the moment, no need to upgrade.

**Note** - there is some incompatibility with VirtualBox 6.1.x and Vagrant 2.2.6. There is currently a manual workaround at <https://blogs.oracle.com/scoter/getting-vagrant-226-working-with-virtualbox-61-ga>.

Version 6.x works with Vagrant 2.2.6

## Install Vagrant

Using a package manager, install the latest version of [Vagrant](https://vagrantup.com). If you have a version 2.2.x you will be ok. Note, if on Linux, do not use the built in package manager as these versions of Vagrant and Packer are too old and unmaintained. Place a screenshot of the output of the command: vagrant --version

Complete the Vagrant tutorial located at <https://www.vagrantup.com/intro/getting-started/index.html>, up to the TEARDOWN step, skipping the SHARE step.

After completing this tutorial take a screenshot of the output of the command vagrant box list

**Note** - there is some incompatibility with VirtualBox 6.1.x and Vagrant 2.2.6. There is currently a manual workaround at <https://blogs.oracle.com/scoter/getting-vagrant-226-working-with-virtualbox-61-ga>.

Version 6.x works with Vagrant 2.2.6

## Install Packer.io

Using a package manager, install the latest version of [Packer](https://packer.io). If you have a version > 1.4.x you will be ok. Note, if on Linux, do not use the built in package manager as these versions of Vagrant and Packer are too old and unmaintained. Place a screenshot of the output of the command: packer --version

I have a series of samples that I use from Packer to build images. Clone this sample repo to your computer: git clone https://github.com/jhajek/packer-vagrant-build-scripts navigate to the packer/vanilla-install directory from the command line. Issue the command: packer build ubuntu18043-vanilla.json

Take a screenshot of the output of the build directory showing the \*.box file. In the build directory, create a directory named **ubuntu-vanilla**. cd into that directory and issue the vagrant init command:

## Install IDE editor

After installing an IDE editor of your choice, pick one of the listed or you can use another one, but it needs to have native Git support built into the editor. Take a screenshot of output of the help > about button in the application. You can install all or any of these via the package managers Chocolatey and Brew.

* [VSCode from Microsoft](https://code.visualstudio.com/)
  + Cross platform and has direct shell integration
* [atom.io](https://atom.io/)
  + Built by GitHub for Git integration
* [Sublime Text](http://www.sublimetext.com/)
  + Built for a MacOS native experience, A sophisticated text editor for code, markup and prose. Available for all platforms.
* [Adobe Brackets](http://brackets.io/)
  + Cross Platform development tool from Adobe

## Git-It Tutorial

Download, extract, and execute the Git-It tutorial, located: <https://github.com/jlord/git-it-electron/releases>. The program runs as an executable so there is no installation needed and is cross platform. The program does require you to have completed and configured Git, which we did in a previous step.

Post a screenshot of your completion badge (or dots) after you finish the tutorial.

## Create and Push your Readme.md

Final step, is to clone the Private GitHub repo you have been provided with by the professor (you received an invite email to it). If you already have a private repo provided by the professor from a previous class, just create a new folder named **itmt-430**, no spaces! Ever! and push your new folder along with a Readme.md file and a folder named **images**.

This Readme.md will contain these elements written in Markdown. This is a good [Markdown cheatsheet reference](https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet).

The document will include:

* h1 with your name
  + a picture of you
  + a picture of something that describes you
* h2 Where are you from?
  + Tell us where you are from
* h2 IT Interests
  + Tell us what you IT Interests and or skills are
* h2 Something Interesting About You
  + Tell us something interesting about you
* h2 Git-It Badge
  + Place your Git-It Tutorial badge image here.

Push this to your GitHub private account repo.

Here is my own completed sample: <https://github.com/illinoistech-itm/jhajek/blob/master/itmt-430/Readme.md>. **Note**, I will have more folders then you because I have sample code for more classes.

## Final deliverable to Blackboard

Submit to Blackboard the URL to your GitHub private repo, so I can clone and see all these elements. Make sure to push code as you go and push this edited Readme.md file under the tooling-assignments folder.