**Assignment 1**

Answer the following questions in short answer form using complete sentences.

Please submit your answers in this Word document and submit to Canvas. Please

name your assignment in the form of **LastName\_AssignmentName.doc**

**Github**

Register for a GitHub account if you do not already have one (http://www.github.com). Put the email address that you used to register for GitHub here so that we can add you to the class organization:

Review the following github tutorials and complete the steps using your github account on <https://guides.github.com> :

-Understanding the GitHub Flow

-Getting your project on GitHub

-Contributing to Open Source on GitHub

-Hello World

-Forking Projects

**AWS**

In this section you will be registering for an AWS account, creating an instance, and connecting to it. Ensure that everything you do is in the US East Region!

To begin click this link:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/concepts.html>

Read through the AWS documentation. Why are we getting you to read documentation? AWS may not always be the defacto standard for the cloud, in fact we may be using Google Cloud later in this course. All cloud services work slightly differently, and we want you to be able to read documentation and understand.

Read and Understand (Be prepared to discuss topics next class) the following sections:

* What is Amazon EC2?
  + Instances and AMI
  + Regions and Availability Zones
  + Root Device Volume

Once you have read and understood the above sections read the following sections and perform the instructions contained (Best Practices is just reading, you don’t need to do anything in that section, yet). When you get to actually launching an instance, please choose Red Hat Enterprise Linux (RHEL) 7.2. You can use a micro instance for free for a year, which we will be utilizing in this course:

* Setting Up
* Getting Started
* Best Practices

Follow the directions for connecting to your instance carefully. If you are using Windows you will need to follow the directions for using putty. If you are on linux or mac you type (Note: $ is the prompt, you don’t type that):

$ssh -i *nameofPemKey.pem* root@*InstanceIP*

Once you have connected to your instance (Do not connect through a web browser, use a terminal or putty), take a screenshot of your terminal and insert it into this document here:

### **AWS and Github**

### This portion of the lab is going to have you install software to your AWS instance and interface with Github as you complete the Git-it Workshop (<https://github.com/jlord/git-it>)

1. Connect to your AWS instance if you are not already connected.
2. Make sure you have all of the necessary tools to run Git-It
   1. To install Git in your Ubuntu AWS instance use the following apt-get command: $sudo apt-get update; sudo apt-get install git
   2. To install Node.js in your Ubuntu AWS instance use the following apt-get command: $sudo apt-get install nodejs nodejs-legacy npm
   3. Check to make sure that vim (or emacs, or whatever other terminal editor you like) is installed. If not you can install it with apt-get.
3. Follow these instructions (<https://github.com/jlord/git-it#install-git-it> ) to install Git-it.
4. Complete all of the Git-it challenges
   1. If the Git-it terminal application causes you problems you can follow the web based instructions (<http://jlord.us/git-it/>) and run $ git-it verify from the command line to check your solutions
5. Take a screenshot of your completed Git-it terminal and include it in your Word document.

Your word document should have a single email and 2 screenshots at this point. You should also have several repositories attached to your Github account.