**ITP 325 – Lab 01 – Submission Setup**

**Due:**

1 minute before the next class lecture

**Submission:**

1. Answer the questions at the end of this file, and name the document lab01.docx
2. Download the instructor’s GPG key from the following location:

<https://sites.google.com/a/usc.edu/chiso/files>

GPG encrypt the \*.docx with the instructor’s and your own GPG key.

1. Place the encrypted document into the repo and push to changes GitHub

**Procedure:**

1. Download and install Git from the following:

<https://desktop.github.com/>

1. Go to GitHub and create an account

<https://github.com/>

* To setup your username following the following algorithm

If your USC email is **ttrojan@usc.edu** then set your GitHub username to be **uscitp-ttrojan**

**Note:** if for any reason the name is already taken, email and inform the instructor.

* Use whatever password you like

1. Open the following guide and follow the instructions to finish your setup of Git and GitHub:

<https://help.github.com/articles/set-up-git/>

1. Create your submission repository by following the instructions from the following:

<https://help.github.com/articles/create-a-repo/>

Name the new repository after the class you are taking. **For example** if the class is ITP 125, name the repository itp125

1. Setup your GPG keys and place the public key into the repo.

**Questions:**

1. Try to setup [Thunderbird](https://www.mozilla.org/en-US/thunderbird/) to work through your [email account](https://itservices.usc.edu/google/config/). Then install [Enigmail](https://www.enigmail.net/index.php/en/) and [GPG4Win](https://www.gpg4win.org/) (Windows) / [GPGTools](https://gpgtools.org/) (OSX) to get GPG working with Thunderbird.

There is one major difference between Mailvelope and Thunderbird when it comes to sending encrypted emails. What is it? What is the difference between the two?

**Hint:**

There is a possibility that the GPG keychain used in the Git Shell maybe different from the keychain for GPP4Win/GPGTools. If that is the case, what can you do to overcome the problem.

1. In regards to question 1, what is a way to could overcome this problem?
2. In regards to question 2, if you suggested a solution that involves symmetric encryption it’s not bad. What would be a way to solve the problem while still using asymmetric encryption? What would you need to type in the command line to accomplish it?

**Videos:**

* [Setup GitHub](https://youtu.be/ZuwrN57_EWA)
* [Setup a Repository on GitHub](https://youtu.be/V7nfvfnKjqg)
* [Setup GitHub Desktop on Windows 7](https://youtu.be/YnnDSPvEp7M)
* [Setup GPG Keys and Encrypting Files on Windows 7](https://youtu.be/mNqsh70Y0wU)
* [Exporting Your Public Keys to GitHub](https://youtu.be/UmyLaVucrhI)
* [Mailvelope Setup and Email with GPG on Windows 7](https://youtu.be/G3gkrdzPYhI)