Lab 01 VM Setup

To keep up moving along in class, there are a few things you need to do on your VMs. Once those are set up, we will be able to get into some more interesting content!

VM Setup

You will need to be able to grab files off of GitHub from your VMs. This will make it easier for you to get source code and compiled binaries that we'll look at in class.

GitHub

We are going to be using GitHub to distribute programs throughout the semester. This should save you some typing/compiling to generate examples. Also, Git is a handy thing to have some knowledge in, so we'll get to know it.

1. If you do not already have a GitHub account, please register for a free one here: https://github.com/signup?ref_cta=Sign+up&ref_loc=header+logged+out&ref_page=%2F&source=header-home

2. Let me know what your GitHub username is (not email address). https://forms.microsoft.com/r/A9WG1H6uxy

3. We are using a private repository for the class. After you've completed the previous step, Mike will batch-add users each day. This won't happen instantly, it's a script that needs to be run manually.

4. Once you are added, you will be able to access the repository: https://github.com/dsu-cs/malware-mh

REMnux

Git should already be installed and available for you on REMnux.

1. Make sure your VM is connected to the internet and authenticated to the captive portal if using the IA lab.

2. Open up a browser and make sure you can access the repository.

3. Follow this tutorial to create an SSH key on your Kali VM – make sure to select the Linux instructions: https://docs.github.com/en/github/authenticating-to-github/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent#

   Note: for what we're working on, you do not need to put a password on your SSH key.

4. Once your key is generated, add it to your GitHub account (again select the Linux instructions): https://docs.github.com/en/github/authenticating-to-github/adding-a-new-ssh-key-to-your-github-account

5. Open up a terminal and clone your Git repository to your Desktop folder.
    a. Git syntax is: git clone **<URL> <destination folder>**

    Note: when cloning the repository, make sure to use the SSH link not HTTPS.

6. Navigate to the new directory, and verify you see the files cloned from the repo.

Windows

1. Follow this tutorial to create an SSH key on your Windows VM – make sure to select the Windows instructions: https://docs.github.com/en/github/authenticating-to-github/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent#

    Note: In step 1 it says to "Open Git Bash". You can launch Git Bash from your Command Prompt by typing **git-bash.exe.** Also, for what we're working on, you do not need to put a password on your SSH key.

2. Once your key is generated, add it to your GitHub account (again select the Windows instructions): https://docs.github.com/en/github/authenticating-to-github/adding-a-new-ssh-key-to-your-github-account

7. Open up a terminal and clone your Git repository to your Desktop folder.
    a. Git syntax is: git clone **<URL> <destination folder>**

    Note: when cloning the repository, make sure to use the SSH link not HTTPS.

8. Navigate to the new directory, and verify you see the files cloned from the repo.

Snapshots

Because of the nature of the materials that we're working on, it's a great idea to take some snapshots of your VMs. These instructions are written for the IA lab; if you are using your own VMs, make sure to show equivalent information.

1. Before taking any VM snapshots, make sure that they are completely powered off. It will take significantly longer to snapshot the VM if it is powered on with content in memory.

2. Take a snapshot of your REMnux virtual machine.

3. Take a snapshot of your Windows virtual machine.