ICCP: Basics of Access and Usage

Getting Ready for the Workshop

In order for you to integrally follow and interact with the workshop's content, you will need to have an instance of the *SSH client/server* installed in your machine. Please, find your operating system below and make sure you go through the installation (if needed) and testing steps that follow **before** joining the workshop. Should you have any issues, please contact babreu@illinois.edu.

Most Linux distributions already come with the SSH client installed. Verify that by:

1. Launching the Terminal (press *Ctrl+Alt+T* or look for "Terminal" in your applications)
2. Type "*ssh -V*" and press Enter/Return.

You should see something that resembles this:

```
babreu@babreu-home:~$ ssh -V
OpenSSH_8.2p1 Ubuntu-4ubuntu0.2, OpenSSL 1.1.1f  31 Mar 2020
```

Most Apple laptops carrying MacOS/OSX already come with the SSH client installed. Please verify that by:

1. Launching the Terminal (search for "Terminal" either on *Finder* or *Spotlight*)
2. Type "ssh -V" and press Return.

You should see something that resembles this:


```
[babreu@NCSA-           ~ % ssh -V
OpenSSH_8.1p1, LibreSSL 2.7.3
```


OpenSSH is available to install on Windows 10 build 1809 and later. If your system is up-to-date, you should already have it. Verify that by:

1. Opening your Command Prompt (*Start → Windows System → Command Prompt*)
2. Type "ssh" and press Enter/Return

You should see something that resembles this:


```
Command Prompt
Microsoft Windows [          ]
(c) 20   Microsoft Corporation. All rights reserved.

C:\Users\       >ssh
usage: ssh [-1246AaCfGgKkMNnqsTtVvXxYy] [-b bind_address] [-c cipher_spec]
           [-D [bind_address:]port] [-E log_file] [-e escape_char]
           [-F configfile] [-I pkcs11] [-i identity_file] [-L address]
           [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
           [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
           [-w local_tun[:remote_tun]] [user@]hostname [command]
```

If you don't see that, there are two possibilities:

- You have a Windows version that is at least Windows 10 / build 1089:
    - In this case, install OpenSSH using Windows Settings as shown below

- You have a Windows version that is older than Windows 10 / build 1089:
    - **Email babreu@illinois.edu saying that you're registered to the workshop but your OS does not support OpenSSH**
    - You will be using *MobaXterm* to connect to the cluster
    - Download the free, **MobaXterm Home Edition** here: https://mobaxterm.mobatek.net/download-home-edition.html
    - Install it and watch the initial 25% of this demo: https://mobaxterm.mobatek.net/demo.html