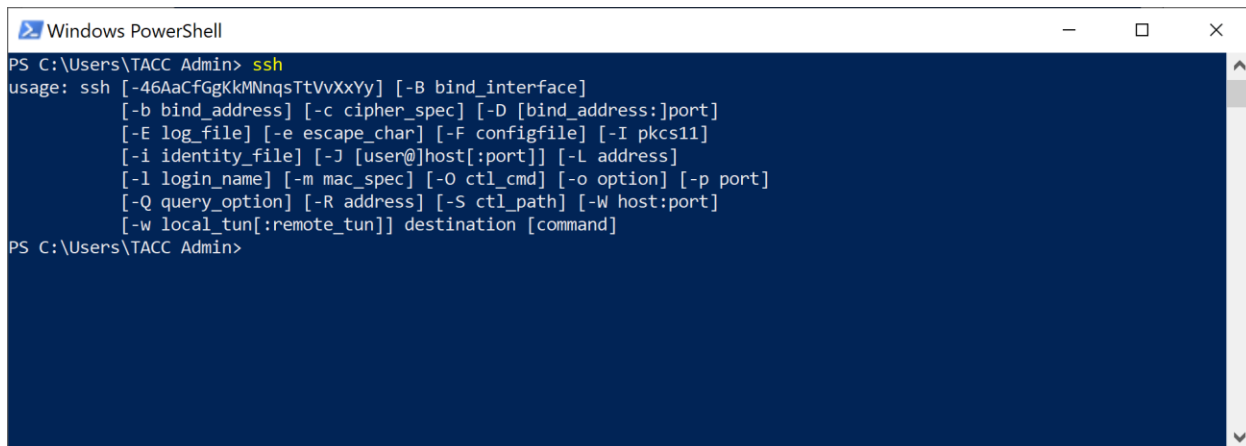## SSH Using Windows

Before attempting to login to TACC systems you will need to create a TACC user account. Visit TACC's "Getting Started" website for a tutorial that will guide you through the basic steps to create your TACC user account: https://www.tacc.utexas.edu/use-tacc/getting-started
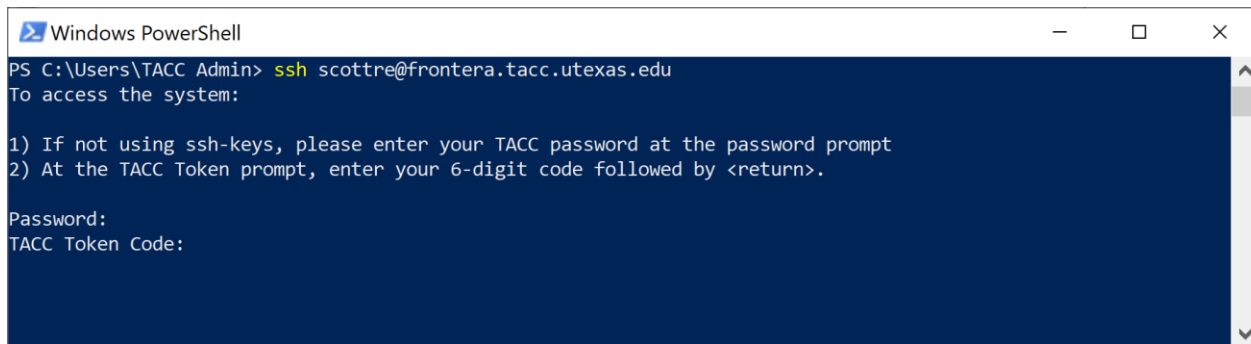
PowerShell:

1) Press the Windows key and type "powershell".
2) Select the app from the Start menu to launch powershell.
3) Type "ssh" and hit Enter. If OpenSSH is activated on your computer, you should see output as shown in the screenshot below. If not, please see the section titled "Install OpenSSH Client".

4) Type **"ssh your_username@frontera.tacc.utexas.edu"** and hit Enter. You may see a message about the authenticity of the host and key fingerprints. Type "yes" to continue connecting.
5) Use your TACC password and TACC MFA Token to login.

6) If you are successful, you should see something that looks like the screenshot below.

```
scottre@login1.frontera:~                                              —    □    ×

--------------------------------------------------------------------------------
                     Welcome to the Frontera Supercomputer
          Texas Advanced Computing Center, The University of Texas at Austin
--------------------------------------------------------------------------------

                  ** Unauthorized use/access is prohibited. **

If you log on to this computer system, you acknowledge your awareness
of and concurrence with the UT Austin Acceptable Use Policy. The
University will prosecute violators to the full extent of the law.

TACC Usage Policies:
http://www.tacc.utexas.edu/user-services/usage-policies/
_____

Welcome to Frontera, *please* read these important system notes:

--> Frontera user documentation is available at:
        https://portal.tacc.utexas.edu/user-guides/frontera

--------------------- Project balances for user scottre ----------------------
| Name            Avail SUs     Expires | Name            Avail SUs     Expires |
| EPW-SCHOOL          7873   2021-07-31 | akhil-test            1   2022-03-31 |
| A-ccsc            53240   2025-06-30 |                                       |
----------------------- Disk quotas for user scottre --------------------------
| Disk        Usage (GB)     Limit   %Used   File Usage     Limit   %Used |
| /home1           0.1      25.0    0.41         1173    400000    0.29 |
| /work            9.6    1024.0    0.94       147288   3000000    4.91 |
| /work2           9.6    1024.0    0.94       147288   3000000    4.91 |
| /scratch1        0.0       0.0    0.00           95         0    0.00 |
| /scratch2        0.0       0.0    0.00            1         0    0.00 |
| /scratch3        0.0       0.0    0.00            1         0    0.00 |
--------------------------------------------------------------------------------

*   Important: the previous /work is now mounted as /work_old, ONLY on logins!
*   /work is now a symlink to the new /work2 filesystem.  Please copy data you
*   need to keep and transition jobs to /work2
*   See announcement at https://portal.tacc.utexas.edu/user-news/-/news/107313

Tip 142   (See "module help tacc_tips" for features or how to disable)

    Create a nifty overview of the hardware on your system and open the "hardware.html" in a browser:
        $ lshw -html > hardware.html

login1.frontera(999)$
```
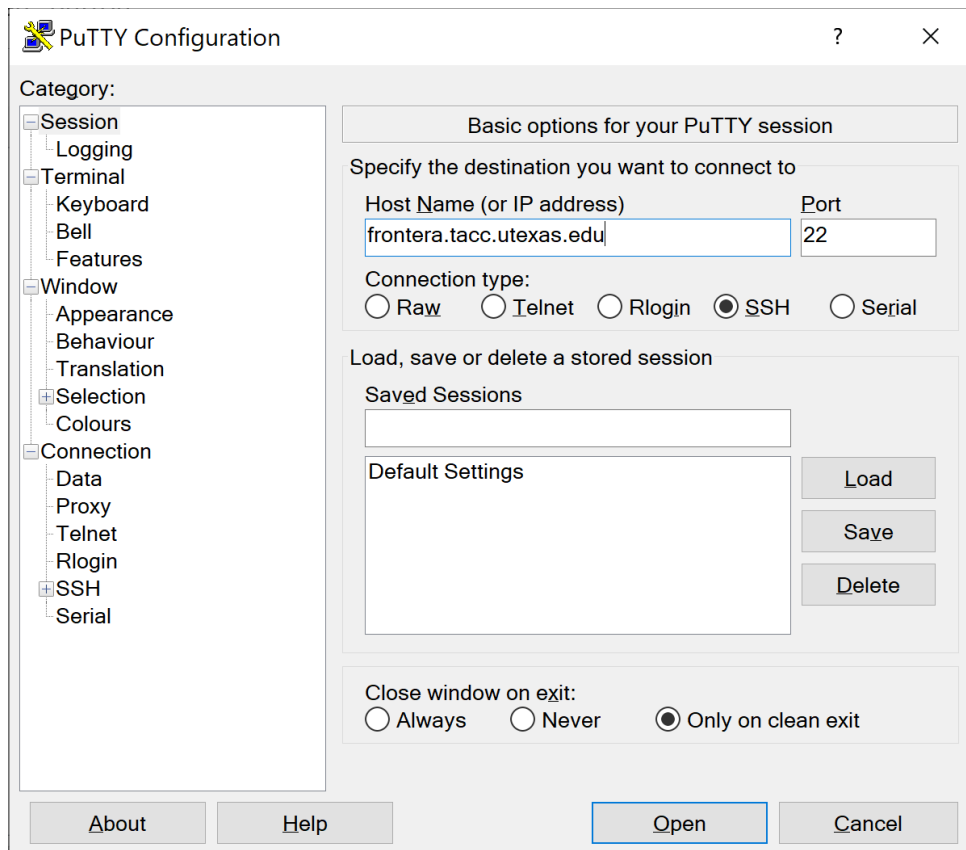
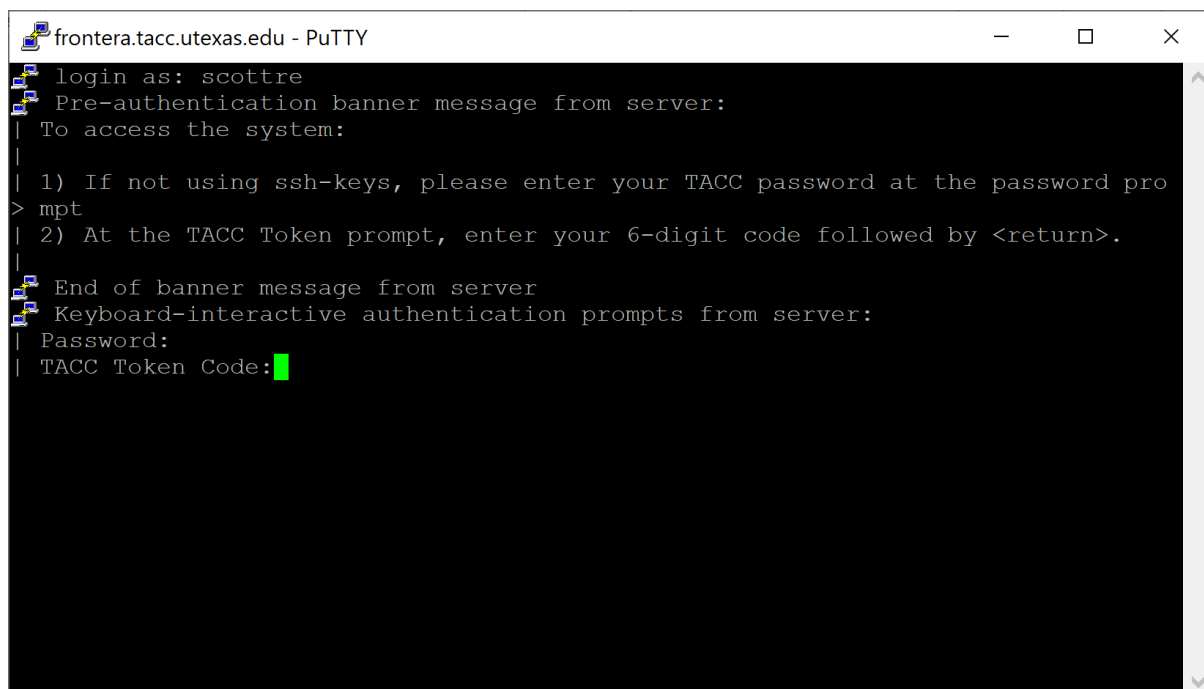## **Install OpenSSH Client**

Navigate to the following:

1) Settings
2) Apps
3) Optional Features
4) Click the "Add a Feature" button
5) Search for "OpenSSH Client"
6) Select "OpenSSH Client" and click the "Install" button
7) Reboot

PuTTY:

1) Launch the PuTTY app.
2) In the Session category, ensure your connection type is SSH, then type the hostname of the remote system you want to ssh to into the "Host Name" filed, in the case of the screenshot below, **frontera.tacc.utexas.edu**, and click the "Open" button.
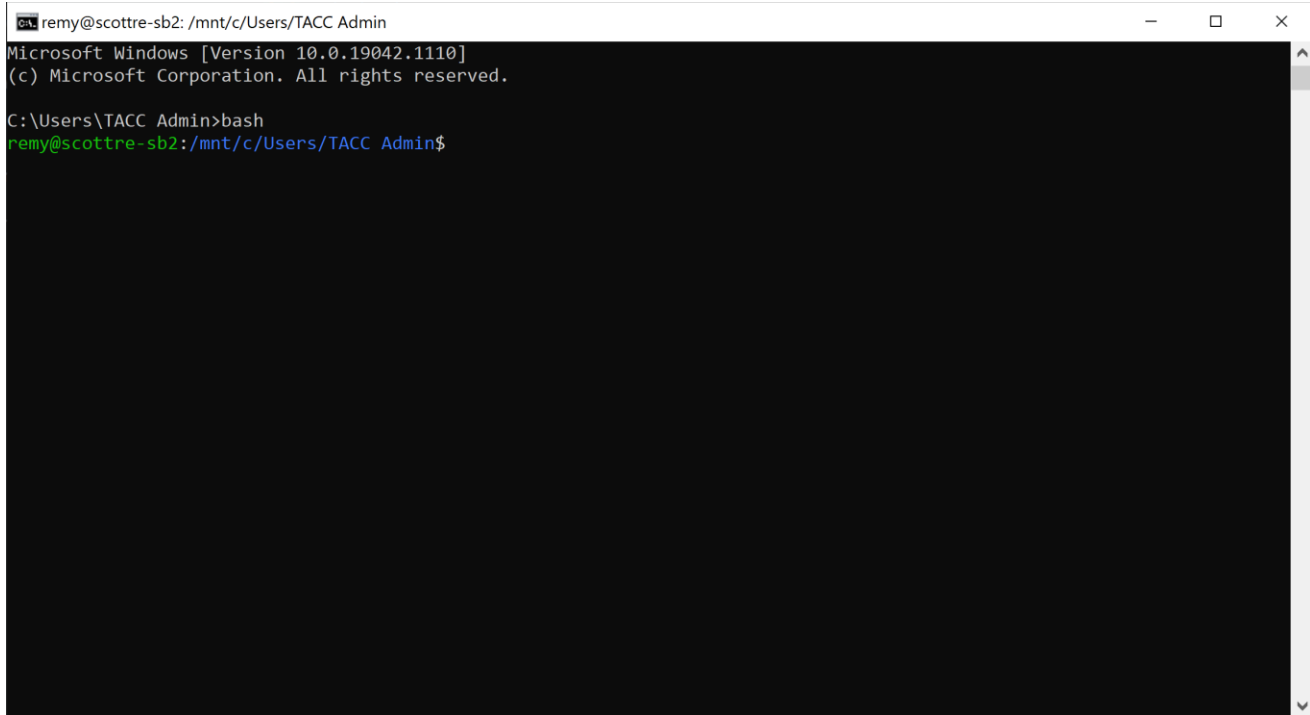

3) You will then be prompted for your username, TACC password, and TACC MFA Token to login.

Command Prompt:

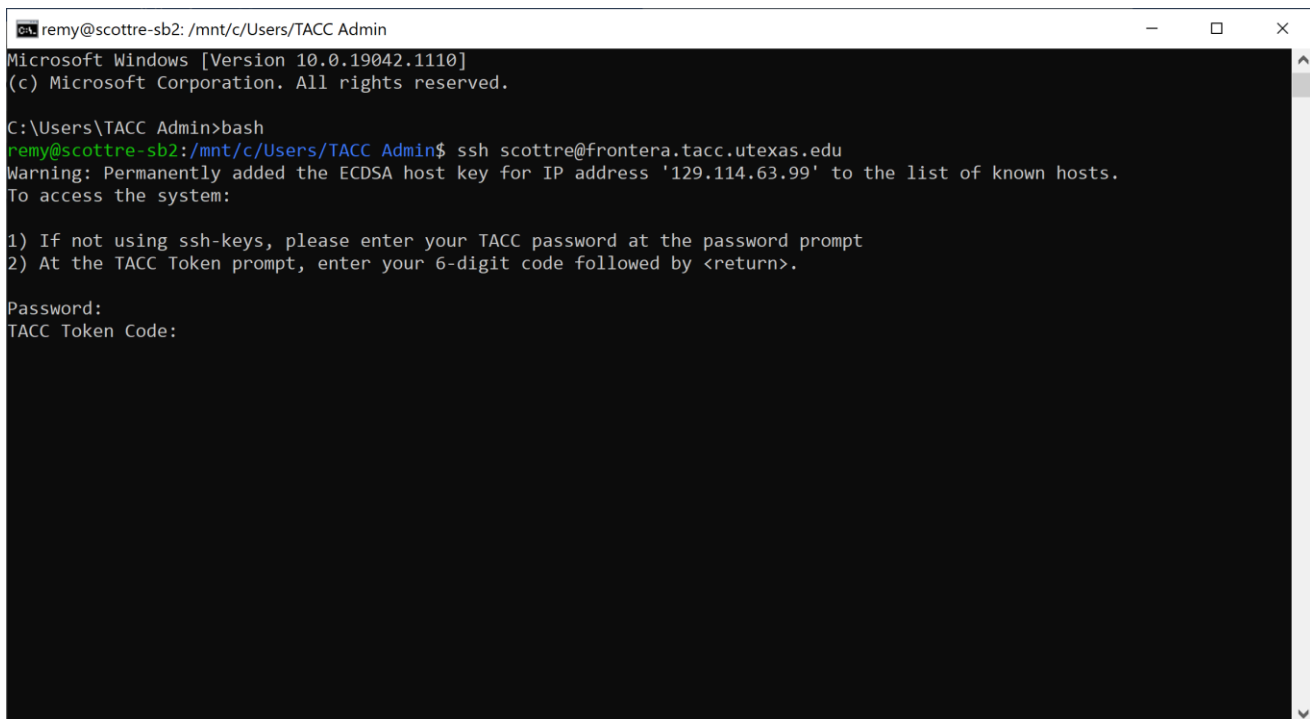If you have WSL (Windows Subsystem for Linux) activated, you can use Command Prompt. Instructions to install WSL can be found here: https://docs.microsoft.com/en-us/windows/wsl/install-win10

1) Press the Windows key and type "cmd".
2) Select "Command Prompt" from the Start menu.
3) Type "bash" and press Enter to change to a bash shell.

4) From this prompt, you can ssh to a remote system:

Notes

Other popular apps to use for a Linux-like experience using Windows:

- Windows Terminal. This app can be installed for free from the Microsoft Store in the Start menu and is installed by default on the latest Windows 10 versions.
- MobaXterm. Free and available for download from https://mobaxterm.mobatek.net/. Side note: my personal favorite and have been using it for several years.
- Google Chrome secure shell Extension: https://chrome.google.com/webstore/detail/secure-shell/iodihamcpbpeioajjeobimgagajmlibd. This a great option for Chromebooks.