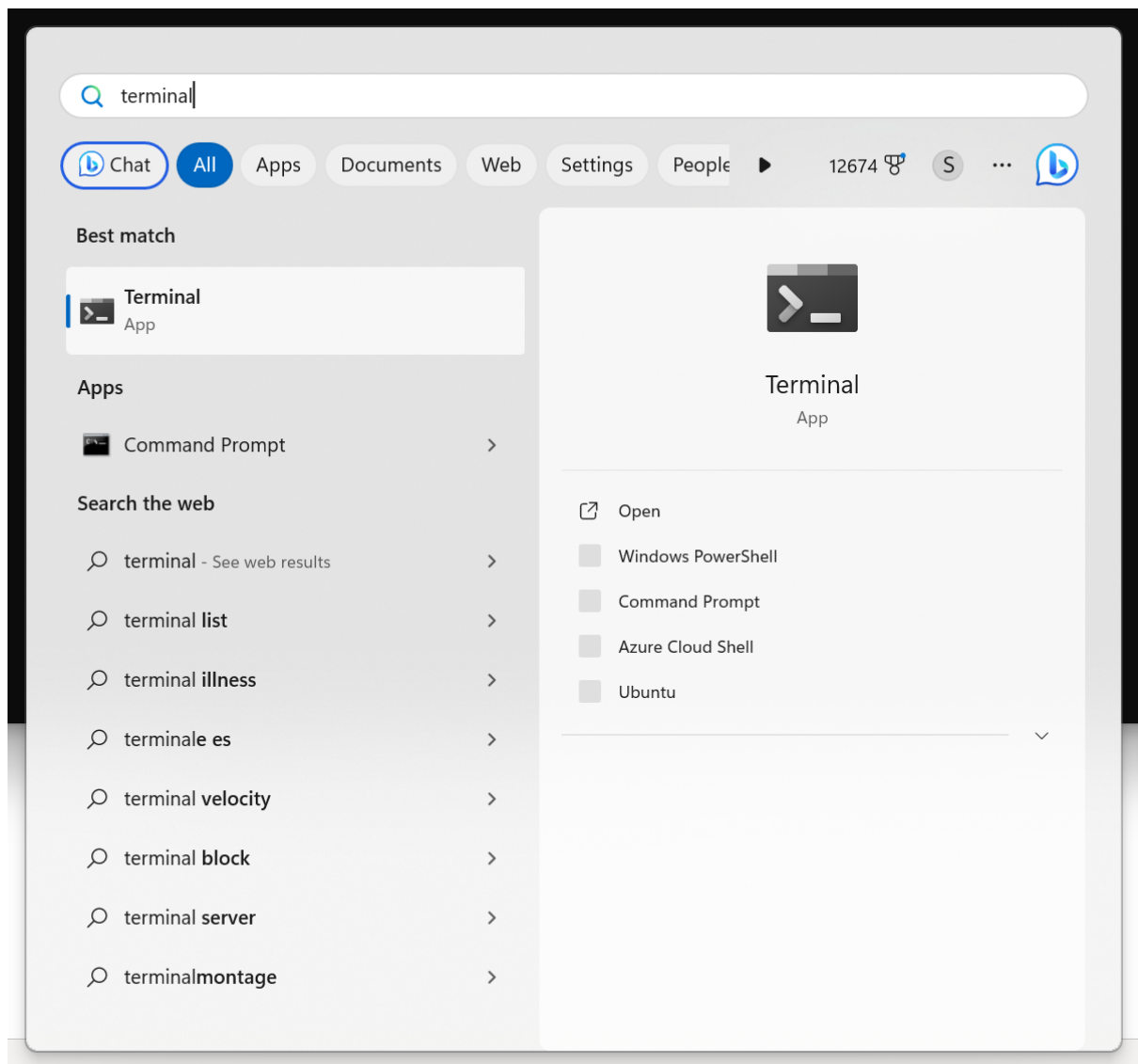


SSH in Windows

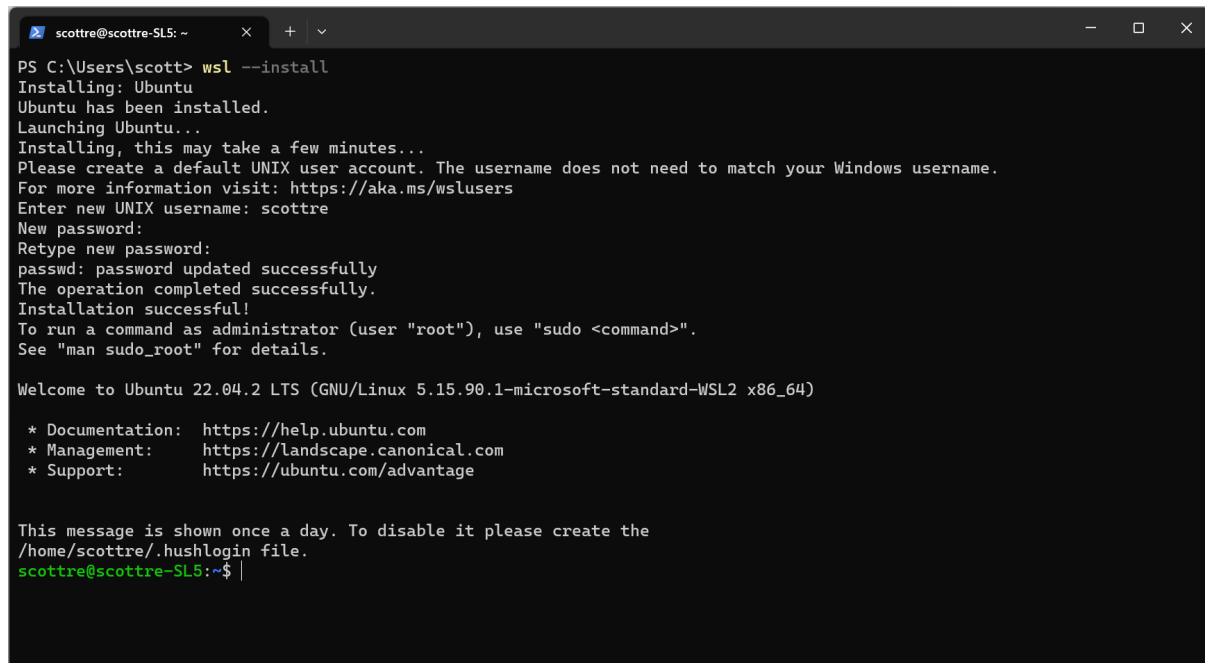
Windows Subsystem for Linux (WSL)

In order to SSH in Windows, the Windows Subsystem for Linux (WSL) is required. Recent Windows builds may already have WSL installed, which will be confirmed during the installation process.

1. Find the Terminal by pressing the Windows key and typing `terminal`. Select the Terminal app.



2. Type `wsl --install` to start the installation process. A UNIX username and password are required. If WSL is already installed, a message indicating that will appear. If this is the first time WSL is being installed, a reboot of Windows will also be required.



```
PS C:\Users\scott> wsl --install
Installing: Ubuntu
Ubuntu has been installed.
Launching Ubuntu...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: scottre
New password:
Retype new password:
passwd: password updated successfully
The operation completed successfully.
Installation successful!
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.90.1-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

This message is shown once a day. To disable it please create the
/home/scottre/.hushlogin file.
scottre@scottre-SL5:~$
```

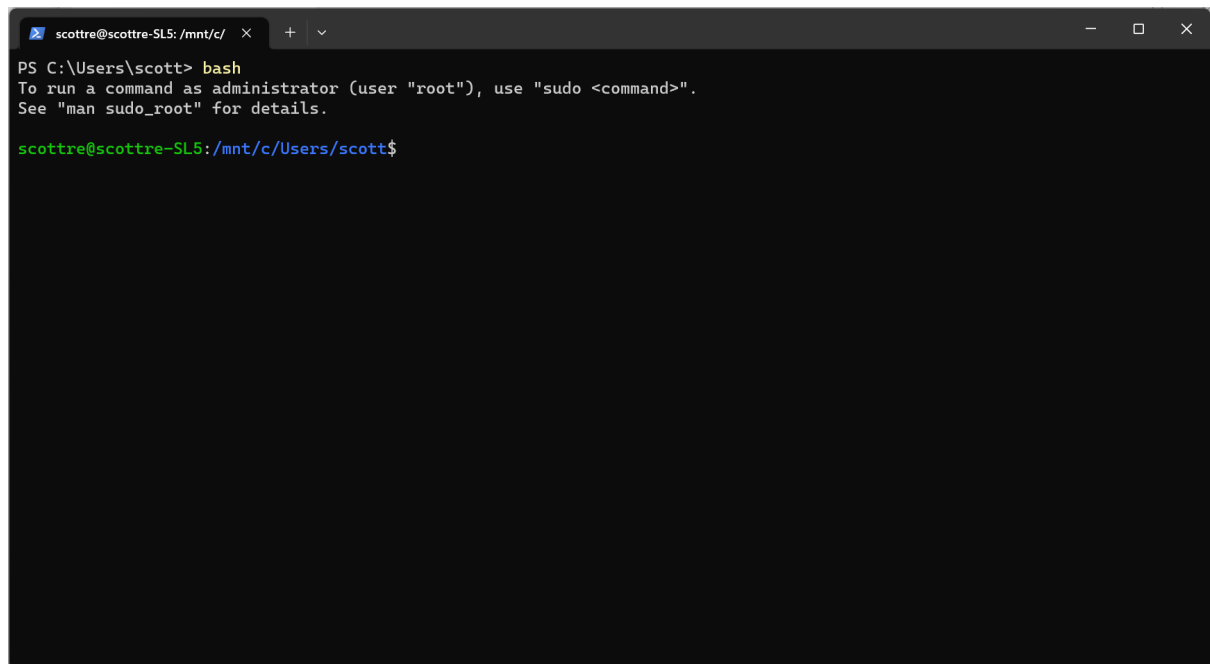


More details about installing WSL can be found online at
<https://learn.microsoft.com/en-us/windows/wsl/install>

Using the bash Shell

Once the WSL is installed, users can invoke the bash shell for a more Linux-like experience in the terminal.

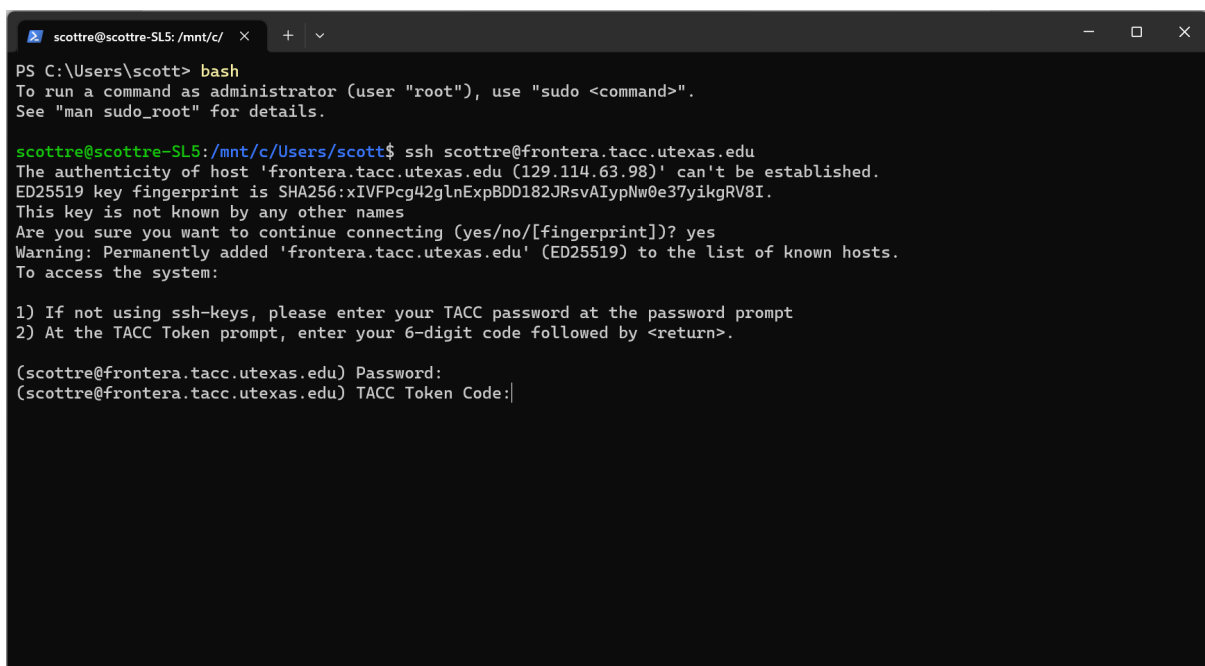
1. Open the Terminal. Type `bash` and press Enter to change your shell to a bash shell.

A screenshot of a Windows terminal window. The title bar shows 'scottre@scottre-SL5: /mnt/c/'. The terminal content shows a Windows command prompt 'PS C:\Users\scott>' where the command 'bash' has been entered. Below this, a message appears: 'To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.' The prompt then changes to a Linux-style bash prompt: 'scottre@scottre-SL5:/mnt/c/Users/scott\$'.

```
scottre@scottre-SL5: /mnt/c/ × + v
PS C:\Users\scott> bash
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
scottre@scottre-SL5:/mnt/c/Users/scott$
```

Using SSH in Terminal

1. Open the Terminal and change to the bash shell. Type `ssh` `your_username@tacc_machine.tacc.utexas.edu` and press Enter, where `your_username` will be your TACC username, and `tacc_machine` will be the system hostname you are attempting to ssh into. Users may receive a message regarding the authenticity of the host if this the first time they are connecting using ssh. Type `yes` when prompted and press Enter to continue connecting. Use your TACC account password and TACC token to login.



```
scottre@scottre-SL5: /mnt/c/ X + v
PS C:\Users\scott> bash
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

scottre@scottre-SL5:/mnt/c/Users/scott$ ssh scottre@frontera.tacc.utexas.edu
The authenticity of host 'frontera.tacc.utexas.edu (129.114.63.98)' can't be established.
ED25519 key fingerprint is SHA256:xIVFPcg42glnExpBDD182JRsvAIypNw0e37yikgRV8I.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'frontera.tacc.utexas.edu' (ED25519) to the list of known hosts.
To access the system:

1) If not using ssh-keys, please enter your TACC password at the password prompt
2) At the TACC Token prompt, enter your 6-digit code followed by <return>.

(scottre@frontera.tacc.utexas.edu) Password:
(scottre@frontera.tacc.utexas.edu) TACC Token Code:|
```

In this example, user `scottre` is connecting to Frontera for the first time.