**Step 1**: Upgrade Windows

Windows users must use Microsoft Windows 11, or Windows 10 Professional, Education, or Enterprise (64-bit). Students should be able to upgrade to Microsoft Windows 10 Education (64-bit) for free through their university.

* Check if there are any updates available for your system by clicking on the Start icon and typing "Check for Updates".
* After upgrading to the latest version of Windows, open PowerShell and type winver to see your windows version
* If you have windows 11 or the windows 10 version is xxxx.2004 or higher, as shown in the screenshot below, continue with **Step 2**.

**Step 2**: Install Windows Subsystem for Linux (WSL2)

To activate WSL2, start PowerShell as an administrator and copy-and-paste the code below:

dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart

Followed by:

dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart;

Next, restart your computer and re-open PowerShell to install Ubuntu. You will be asked to provide a username and password after install Ubuntu.

wsl --set-default-version 2

wsl --install -d Ubuntu-20.04

Important: Make sure to enter the same username and password you use to login to your computer

Check your username for Windows and Ubuntu by executing the command below in both (1) a Windows PowerShell and (2) an Ubuntu terminal. The output in both cases should be the same.

whoami

Next, restart your computer and re-open PowerShell to check that Ubuntu is set as the default linux distribution:

wsl --list

This should return the below:

PS C:\WINDOWS\system32> wsl --list

Windows Subsystem for Linux Distributions:

Ubuntu-20.04 (Default)

docker-desktop-data

docker-desktop

If Ubuntu is not set as the default linux distribution, update the default setting and double check that it is now correct

wsl --setdefault Ubuntu-20.04

wsl --list --online

**Step 3**: Install Windows Tools

Download and install the Microsoft [App Installer](https://www.microsoft.com/en-us/p/app-installer/9nblggh4nns1?activetab=pivot:overviewtab). After completing the install, open a new PowerShell terminal **as a regular user** and enter the commands below:

winget install -e Microsoft.VisualStudioCode;

winget install -e Docker.DockerDesktop;

This will install VS Code and Docker Desktop. If you are using Windows 10, you should also install Windows Terminal using the command below. Windows Terminal is available by default on Windows 11. We recommend you pin Windows Terminal and VS Code to the taskbar as you will use these tools regularly.

winget install -e Microsoft.WindowsTerminal;

Next, logout and back into Windows and then start Docker by clicking on the Whale icon that was added to your desktop (see image below).

**Step 4**: Open an Ubuntu terminal to complete RSM-JUPYTER-RS computing environment setup

If you are using Windows Terminal you can click on the down-caret at the top of the window to start an Ubuntu terminal as shown in the screenshot below. Alternatively, you can click on the Windows Start icon and type "ubuntu" to start an Ubuntu terminal. Copy-and-paste the code below into the Ubuntu terminal and provide your password when prompted.

* Note: if you don’t remember your root password, open up a regular command prompt and type
  + ubuntu2004 config --default-user root