Pandas Workshop Setup Instructions

Hi!

In order to participate fully in the Python pandas workshop, you will need to have **Docker Desktop** installed on your Windows machine. Docker will provide us with a ready-to-go **Python development environment**, which means we won't have to install ANY libraries! Pretty sweet, right?

It'll also allow us to setup a **JupyterLab environment** on the fly. I'll go over JupyterLab during the workshop but for now just know that it will bring all the pandas pow-wow to life, like dataframes and matplotlib visuals!

See you on Saturday!

Important: Please have this setup completed BEFORE the lab. It'll take you about 30-45 minutes to complete. If you have any questions, you can always message me @Louai#1966 on Discord.

Step #0: Virtualization must be enabled in the BIOS. For most, it should already be enabled – if you've been running VMs all semester, then it already is! The steps to enable it are machine-dependent so I leave this up to you!

Step #1: Enable Prerequisite Windows Features

- In the Windows Search Bar, type "Turn Windows Features On and Off"

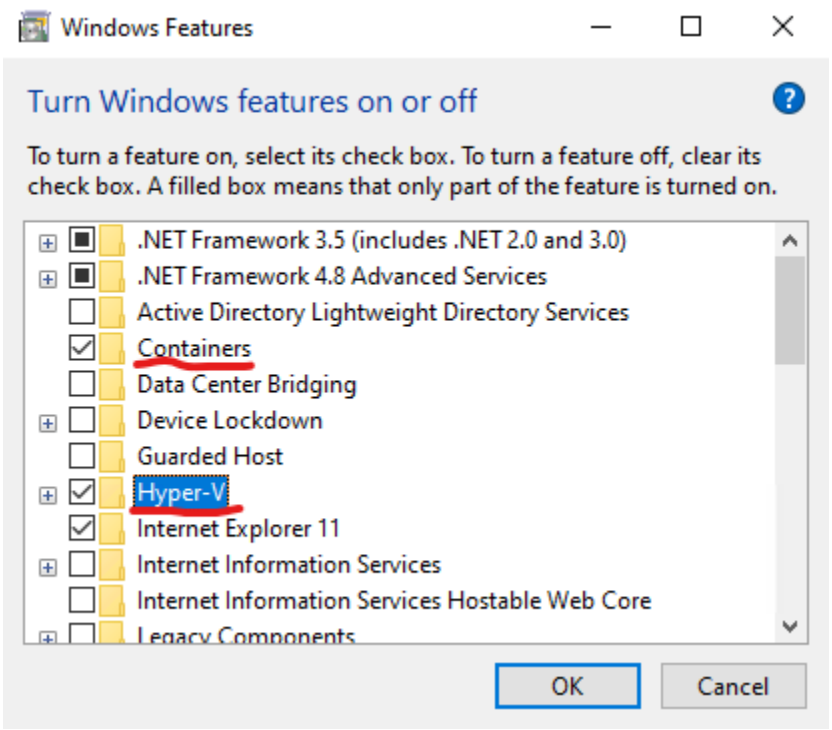
- Esnure the following two features are check:

1. Containers

2. Hyper-V

- Click OK and wait for the features to be enabled.

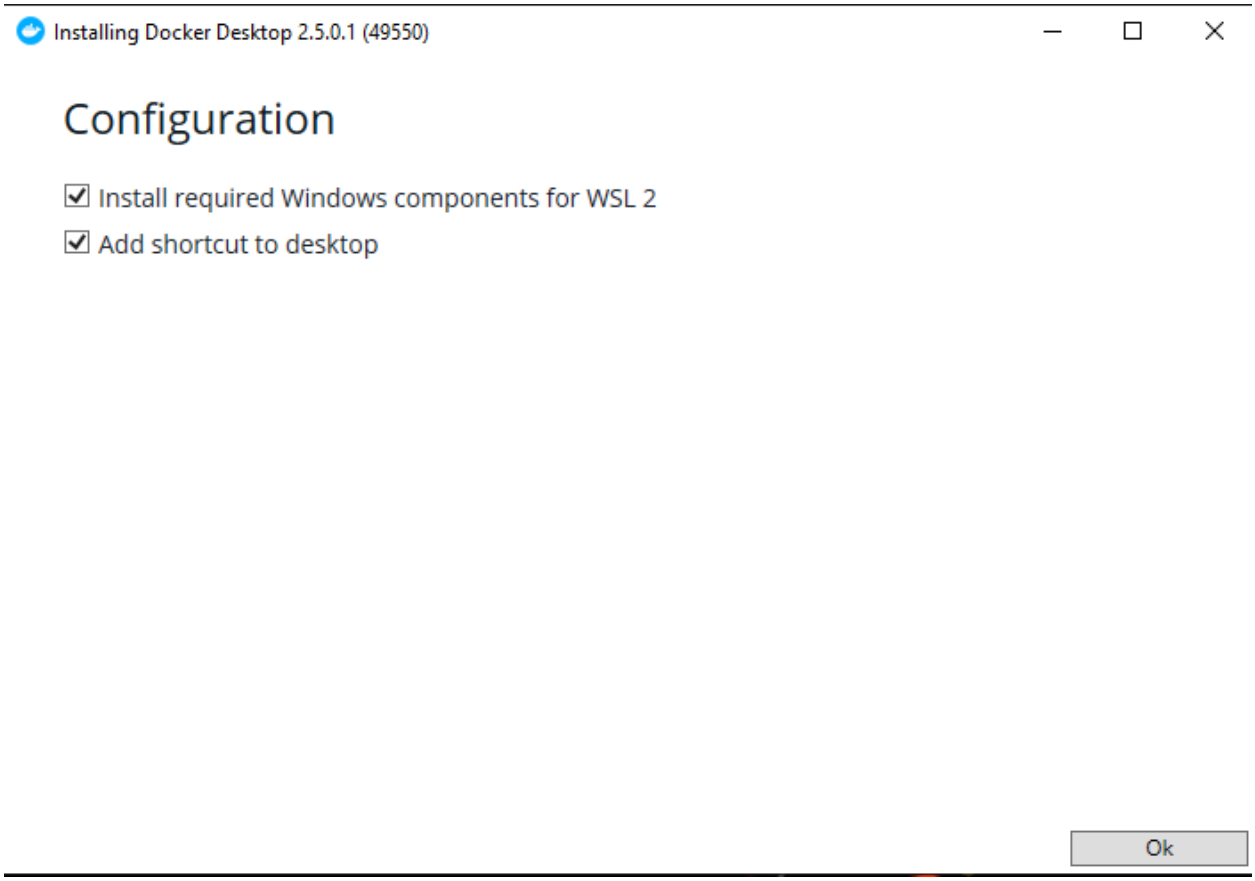
- Click "Restart now" to restart your PC

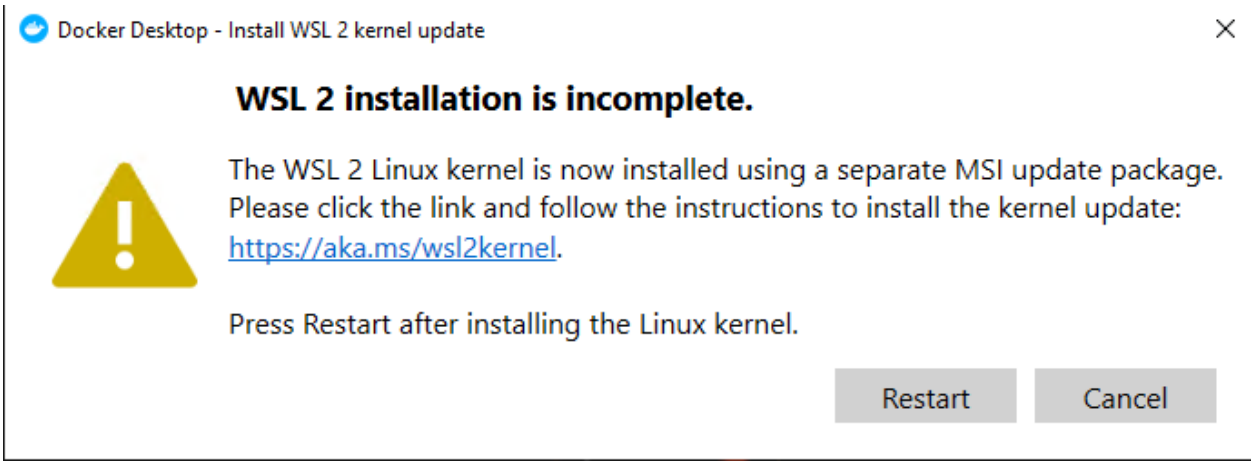


Step #2: Download and install Docker Desktop for Windows from https://hub.docker.com/editions/community/docker-ce-desktop-windows/ (using default options).

- Once the installer is finished, click "Close and Restart" to restart your computer.

- At this point, Docker Desktop should start automatically, but also might complain about a few things (see Step #3 below).





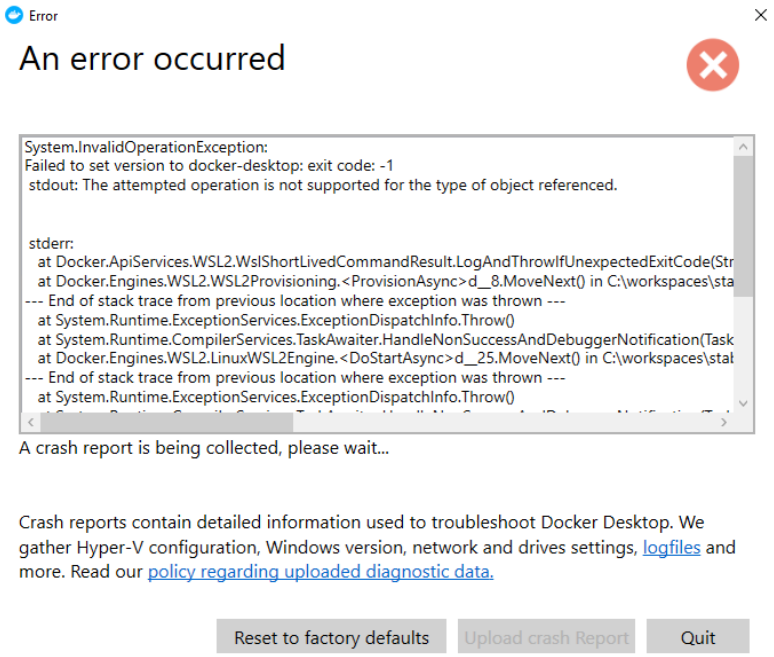
Step #3: At this point, Docker Desktop might complain that the WSL 2 (Windows Subsystem for Linux 2) installation is incomplete. The WSL2 kernel must be updated. To do this:

1. DO NOT close the "Docker Desktop - Install WSL 2 kernel update" window. If you already closed it, no worries, just type “Docker Desktop” in the Windows search bar and run it again.

2. Download the latest wsl2 kernel update by clicking this link: http://aka.ms/wsl2kernelmsix64 and execute the installer.

3. On the "Docker Desktop - Install WSL 2 kernel update" you saw earlier, click "Restart" to restart the docker service.

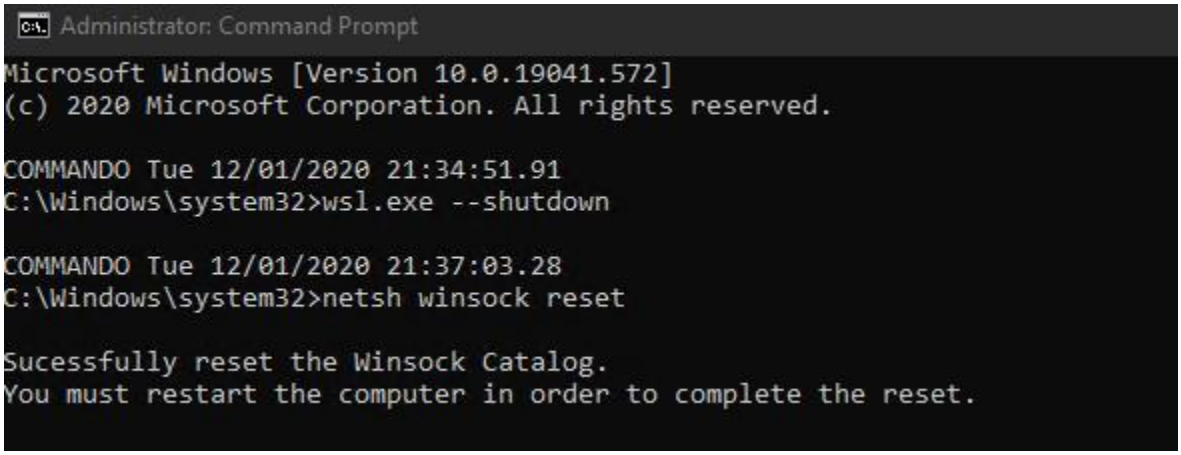
4. At this point, you might see an error that looks like this. Don't panic! This is a known issue.



5. Click "Quit" and open a Windows Command Prompt as administrator. Type these commands exactly:

Command #1: wsl.exe --shutdown

Command #2: netsh winsock reset



6. You do not need to restart your computer. Once you see this screen, you'll have successfully installed Docker Desktop.