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Chapter 1

WSL Install

This applies only if you are making use of windows 10 or 11. You can decide to skip this chapter as a docker alternative for running ROS is being prepared but you might have compatibility issues, thus I advice you go through this painfully.

1.1 powershell install

- Search for powershell
- Right click on it and click run as administrator
- Enter 'wsl --list -online'
- In the results, check for latest version having LTS attached which means long time support
- Enter 'wsl --install -d <DISTRO-NAME>'. In this case <DISTRO-NAME> is ubuntu-20.04.
- Restart your computer to finish the installation
- Search for ubuntu and you can drag it to taskbar icon for easy startup.

1.2 microsoft store install

- Open start
- Search for 'Turn windows features on or off'
- On the resulting window, scroll down and search for 'Virtual Machine Platform'
- Ensure the 'Virtual Machine Platform' is ticked then click 'OK'
- Retart your system
- After system restart, open the microsoft store app
- search for ubuntu
- select the latest version with LTS support

- Then install.
- After install, search for ubuntu on system and you can drag it to taskbar icon for easy startup.

Chapter 2

Docker Install

2.1 On Windows

I would advice you go through 1 now and install WSL appropriately. This will ensusre you ease of setup of otherpackages in the future.

- Go to [Docker download page]
- Click on 'Download Desktop for Windows'
- Run the downloaded installer
- Select WSL2 backend if you went through with the first chapter, else select hyper-V backend option.
- Follow the remaining instructions to install and click close when installation is complete.
- If your user accooount is not the admin account,search for 'Computer Management' and right click to run as administrator.
- Go to 'Local Users and Groups'
- Under 'Local Users and 'Groups' go to 'Groups'
- Under 'Groups', select 'docker-users'
- Right click to add the user to the group.
- Log out and log back in so chnages can be applied