ME424 Modern Control and Estimation

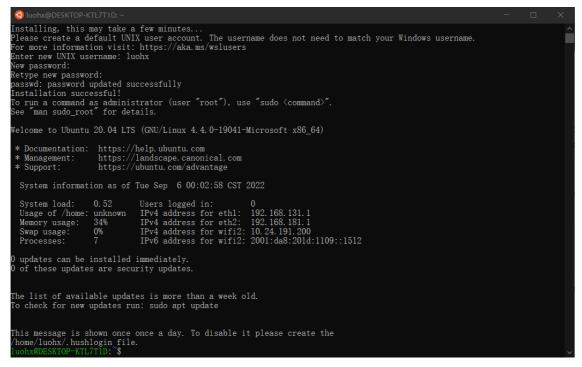
Tutorial #2 Install Linux on Windows with WSL

WSL enables you to use Linux tools, like Bash or Grep, completely integrated with Windows tools, like PowerShell or Visual Studio Code, with no need to dual-boot. Microsoft officially gave a <u>detailed tutorial</u>. The latest installation method is very easy.

1. **Open Windows PowerShell as administrator**. Use the commands below to download WSL and install the specified Linux distribution. For this course, we specify installing Ubuntu 20.04 LTS.

wsl --install -d Ubuntu-20.04

- 2. If you haven't installed WSL before, this command will also install it on your computer. After the above command is executed, please **restart**.
- 3. You need to create a user account and password for the newly installed Linux distribution. Then, you will enter the following interface. This is the Linux system environment in WSL.



4. Enter the following command in the terminal to update the software source.

sudo apt update

Several suggestions for improving efficiency:

- 1. <u>Install Windows Terminal</u>: Using Windows Terminal supports as many command lines as you would like to install and enables you to open them in multiple tabs or window panes and quickly switch between multiple Linux distributions or other command lines (PowerShell, Command Prompt, PowerShell, Azure CLI, etc).
- 2. <u>Install Visual Studio Code Remote WSL extension</u>: This extension lets you use the WSL as your full-time development environment right from VS Code. You can develop in a Linux-

based environment, use Linux-specific toolchain and utilities, and run and debug your Linuxbased applications all from the comfort of Windows. <u>Details here</u>.