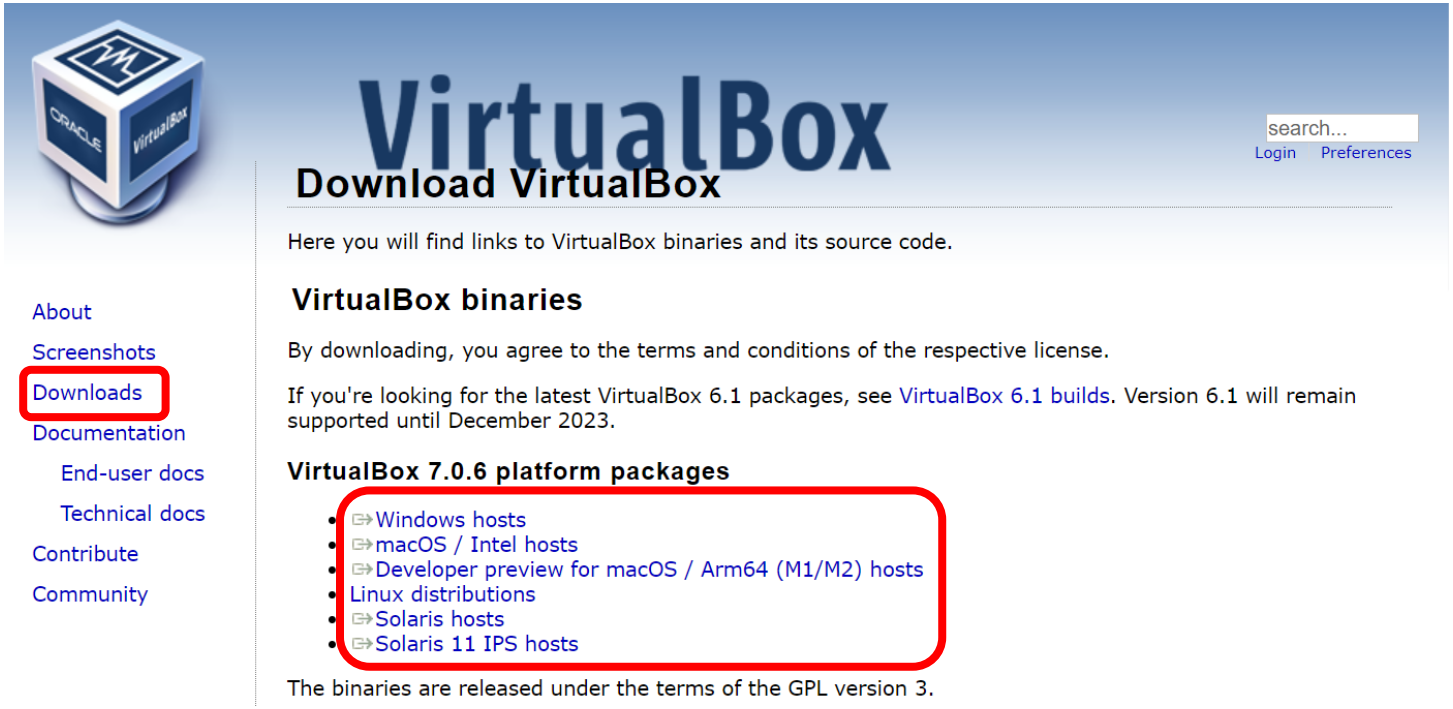
Appendix:
Setting up a Virtual Machine

Why?

- We will be using a virtual machine to run today's exercise.
- If you already have a Linux virtual machine set up, you do not have to set up another VM.
  - It might be better to have a separate VM just for this class though.
- We will be setting up a VM that uses Ubuntu, but you can use any distro you want.

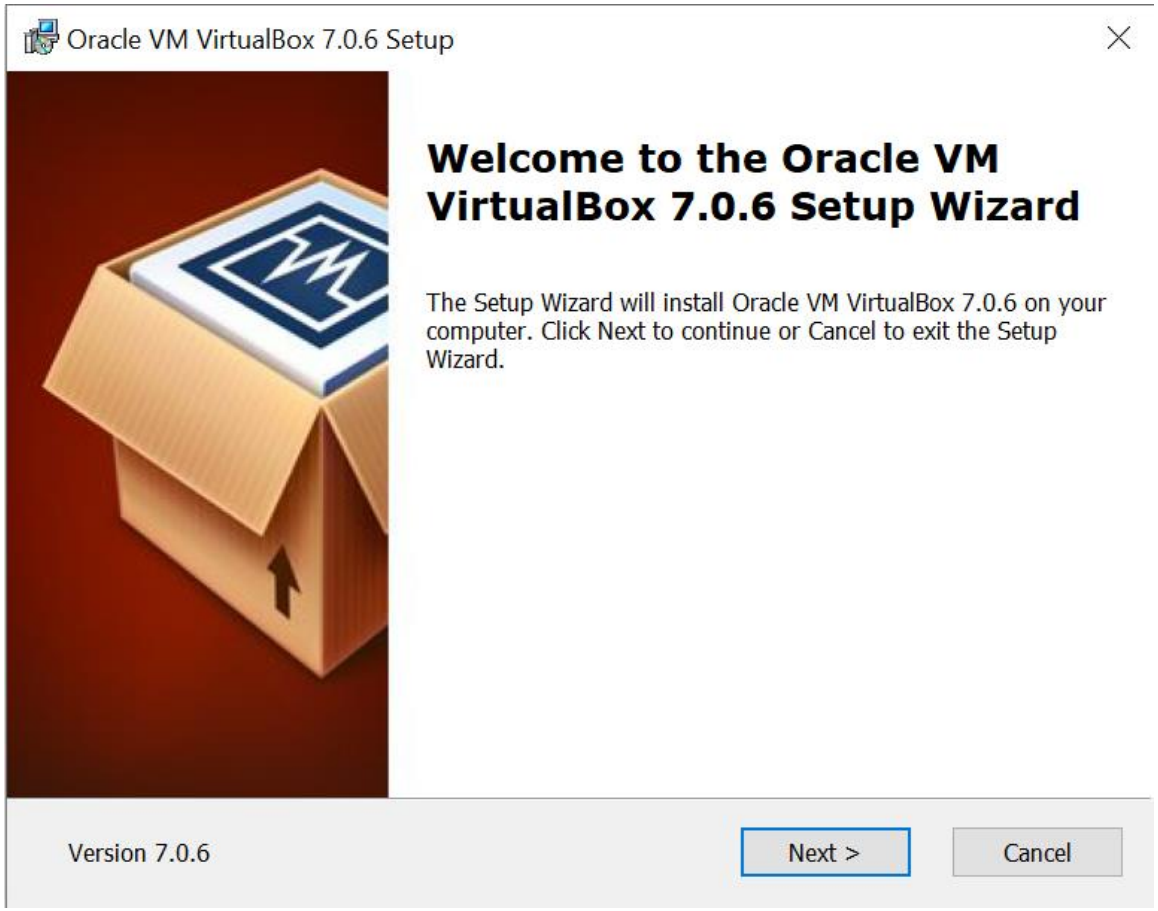
Installing VirtualBox (1)

- Go to VirtualBox website
  - https://www.virtualbox.org/
- Download installation binary



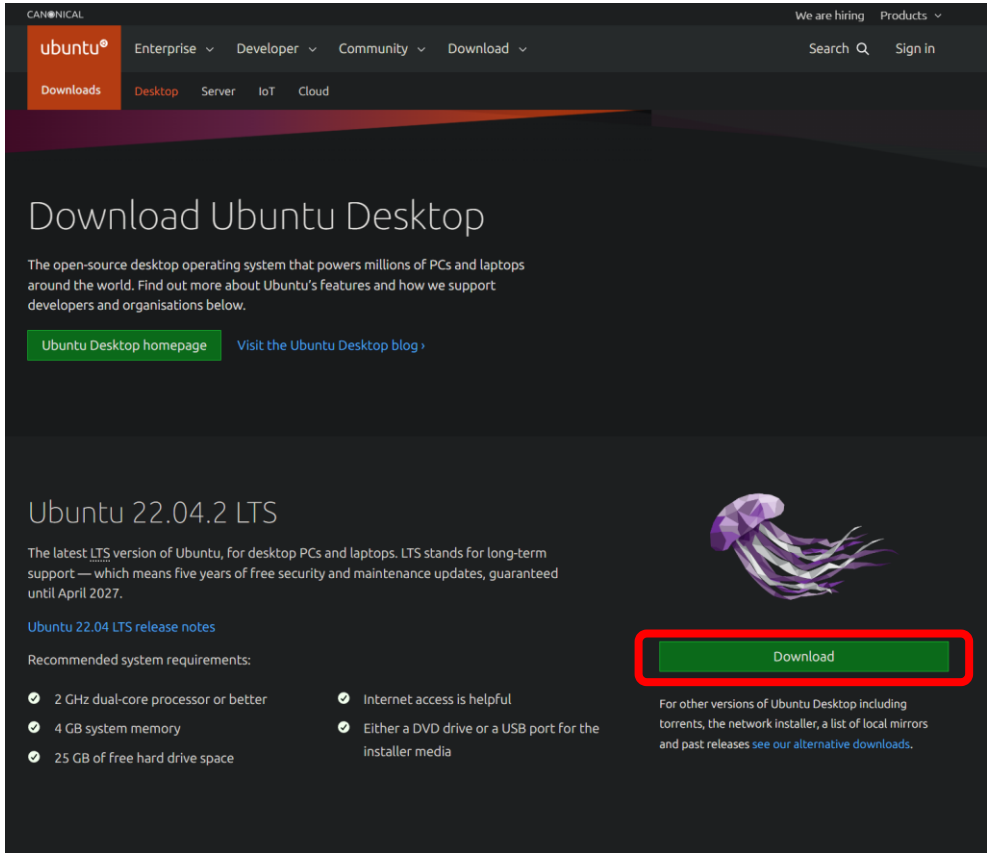
Installing VirtualBox (2)

- Next, Next, Yes, Yes, Install, Finish!

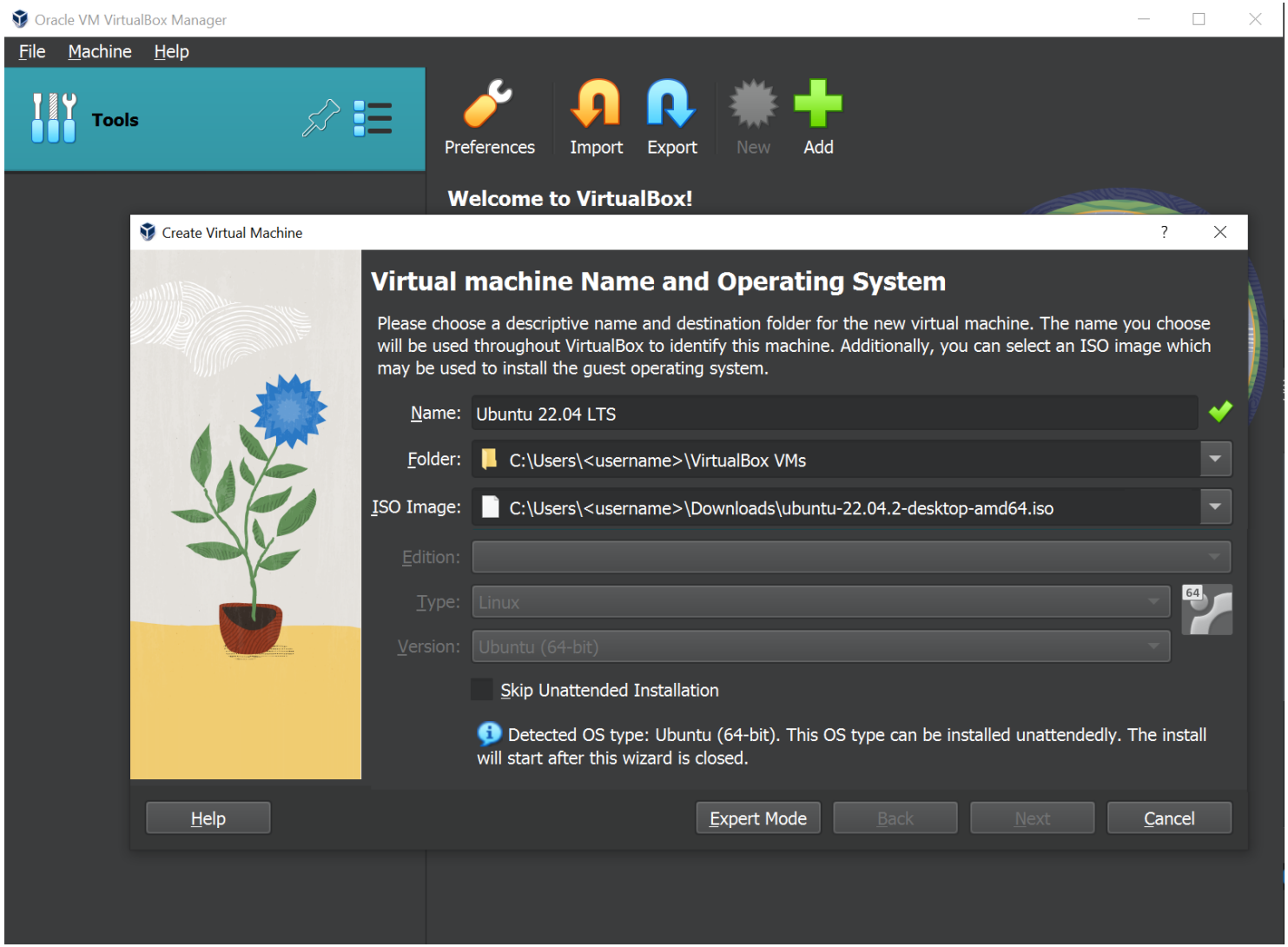


Downloading Ubuntu

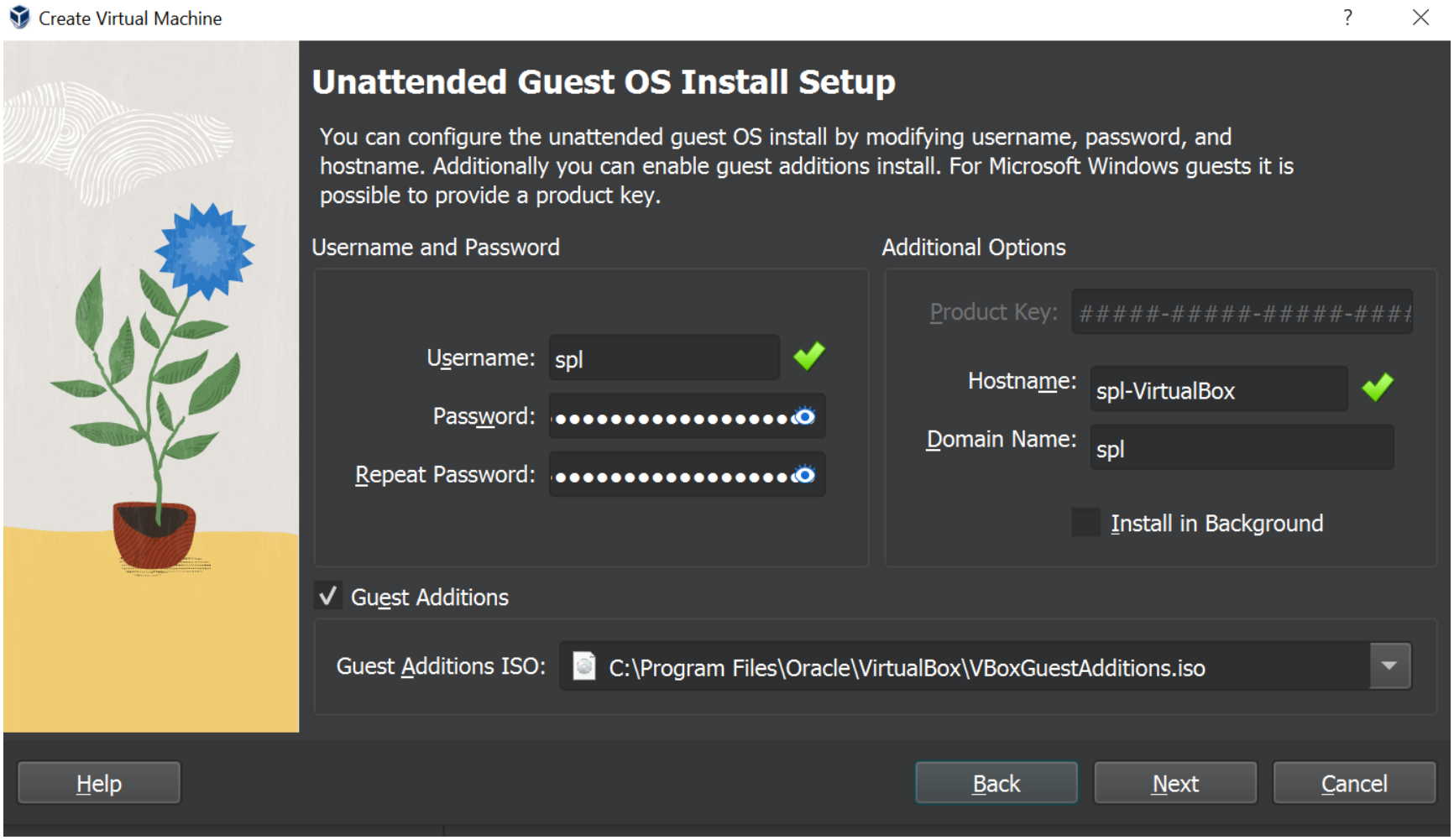
- Go to http://www.ubuntu.com/download/desktop
- Download a desktop image



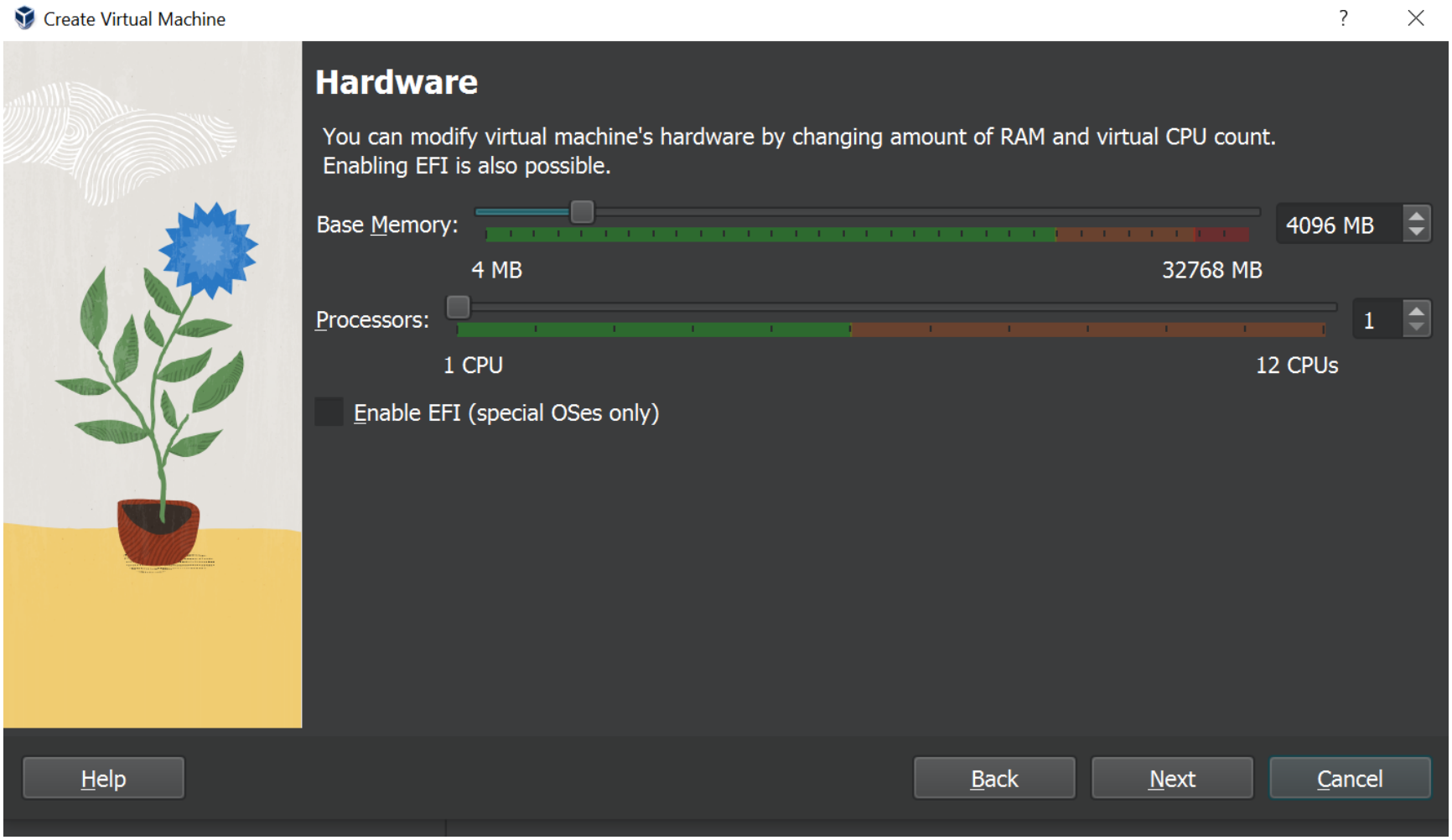
Creating a VM (1)



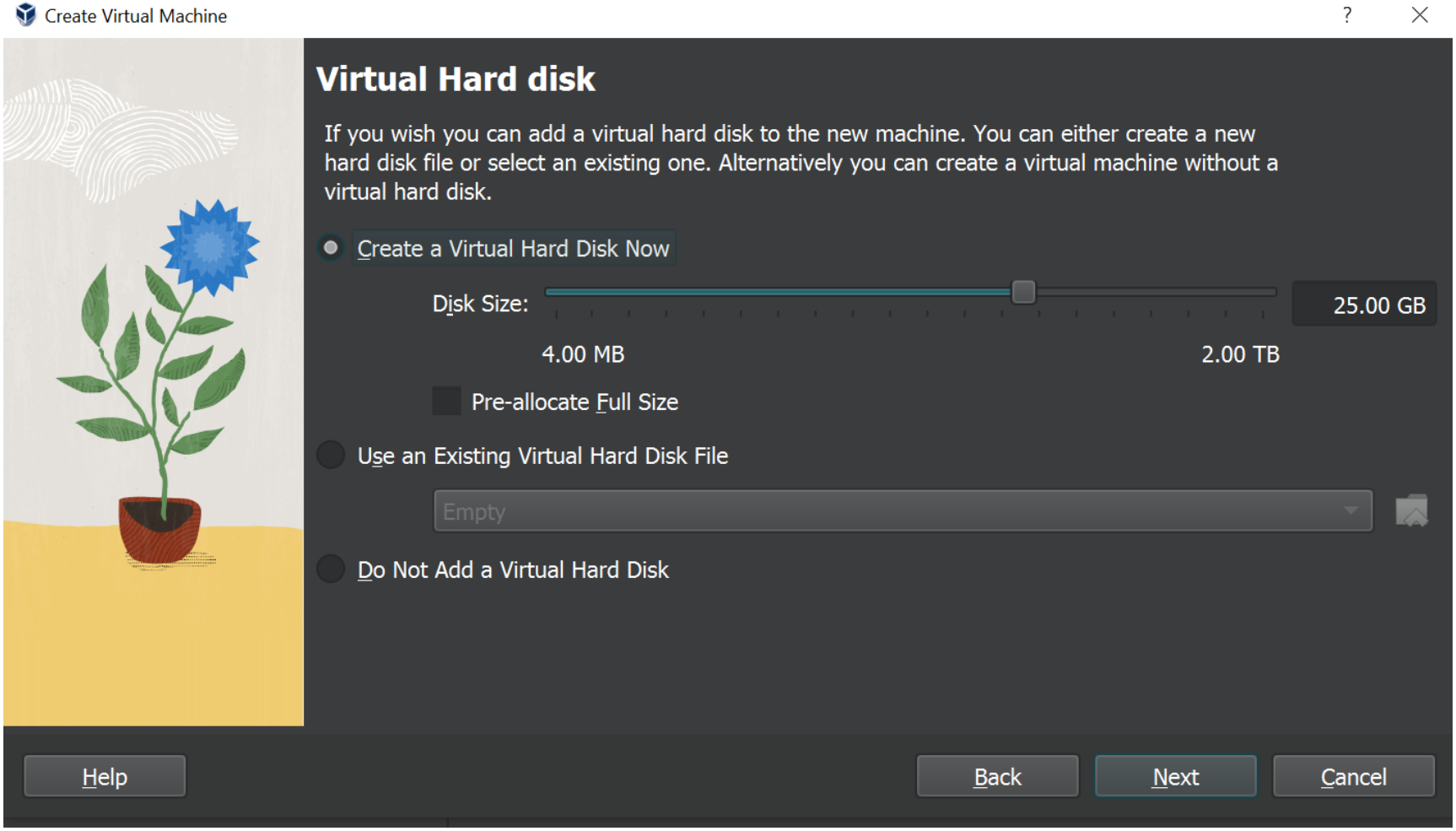
Creating a VM (2)



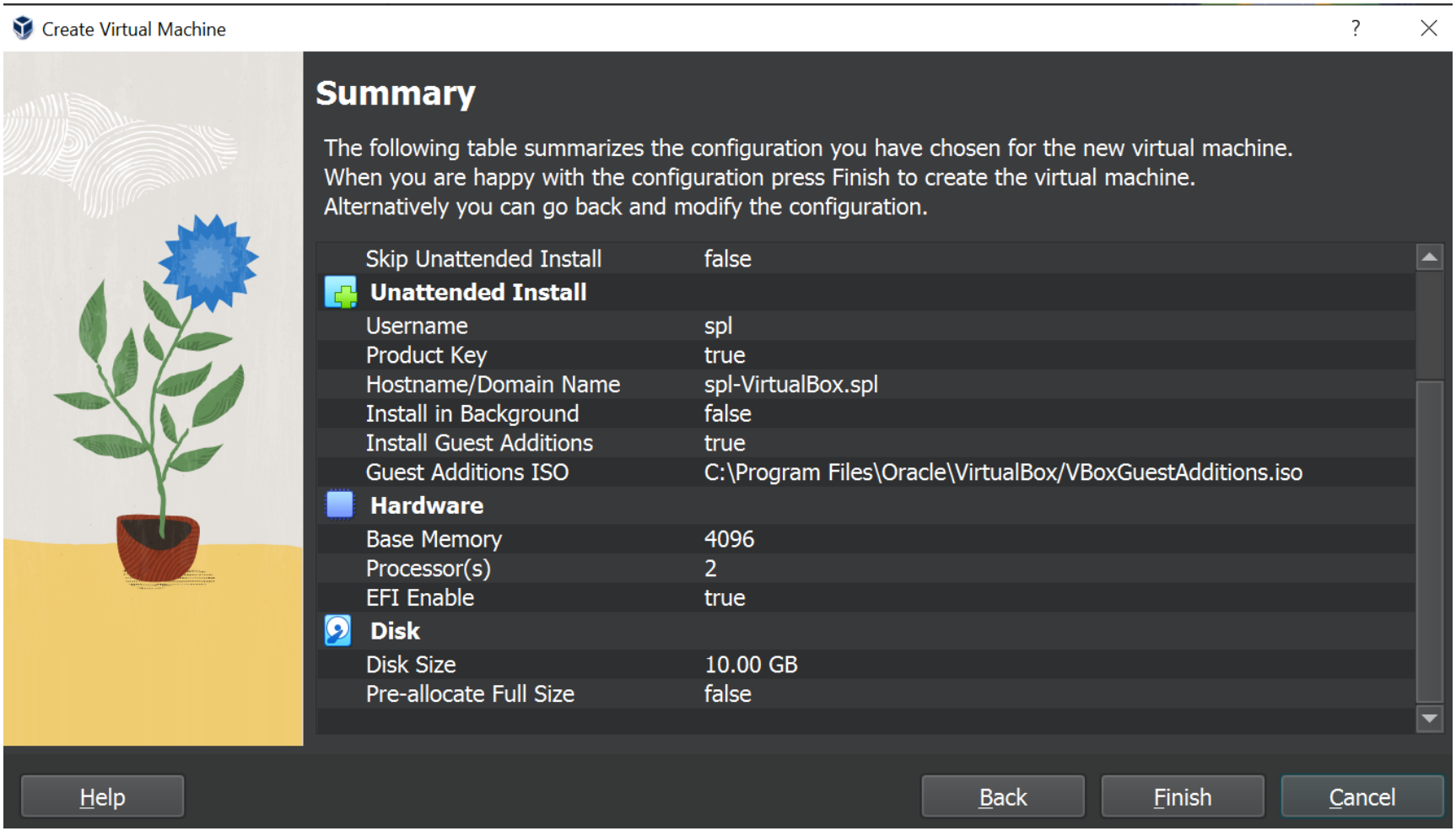
Creating a VM (3)



Creating a VM (4)

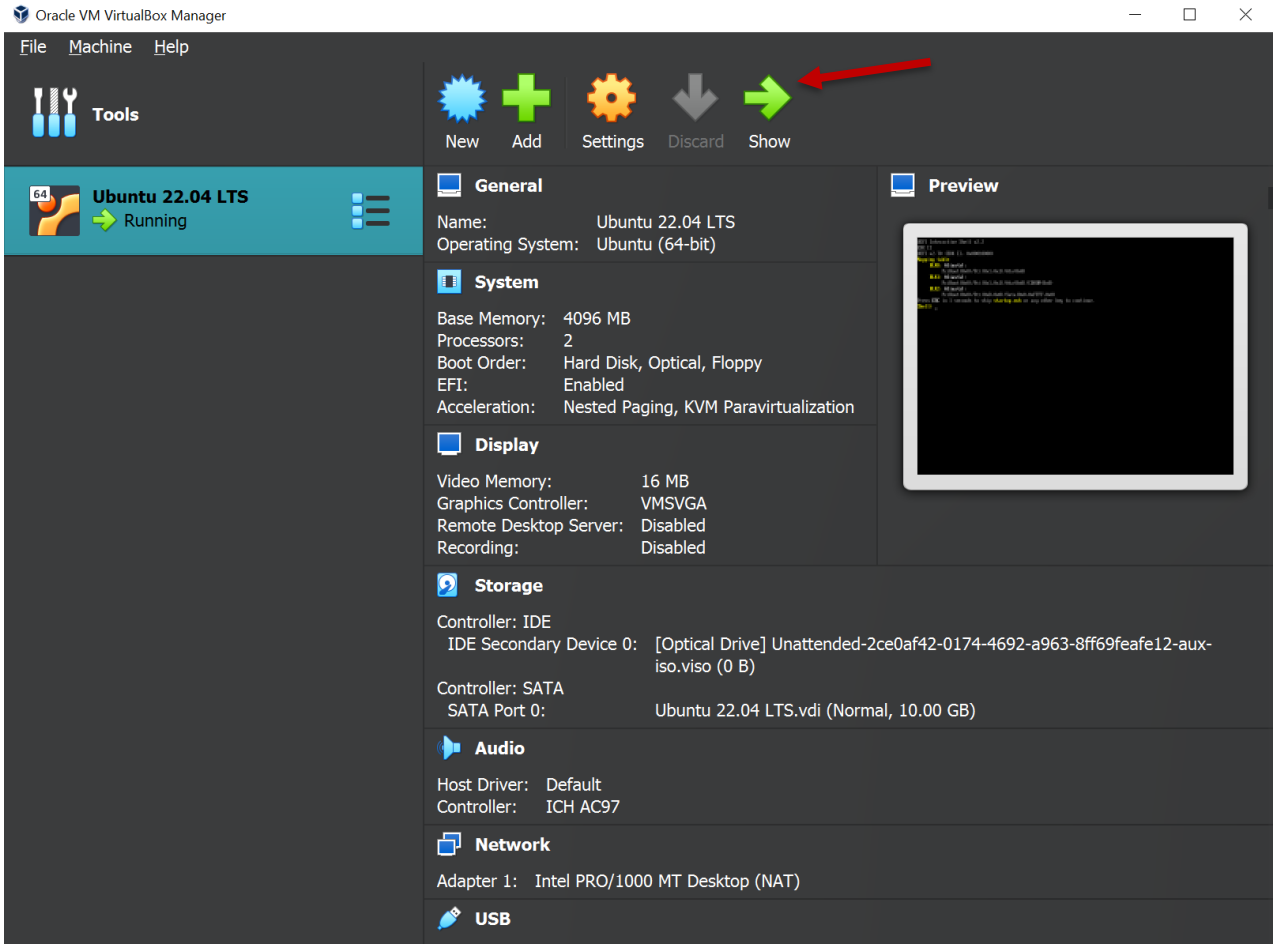


Creating a VM (5)



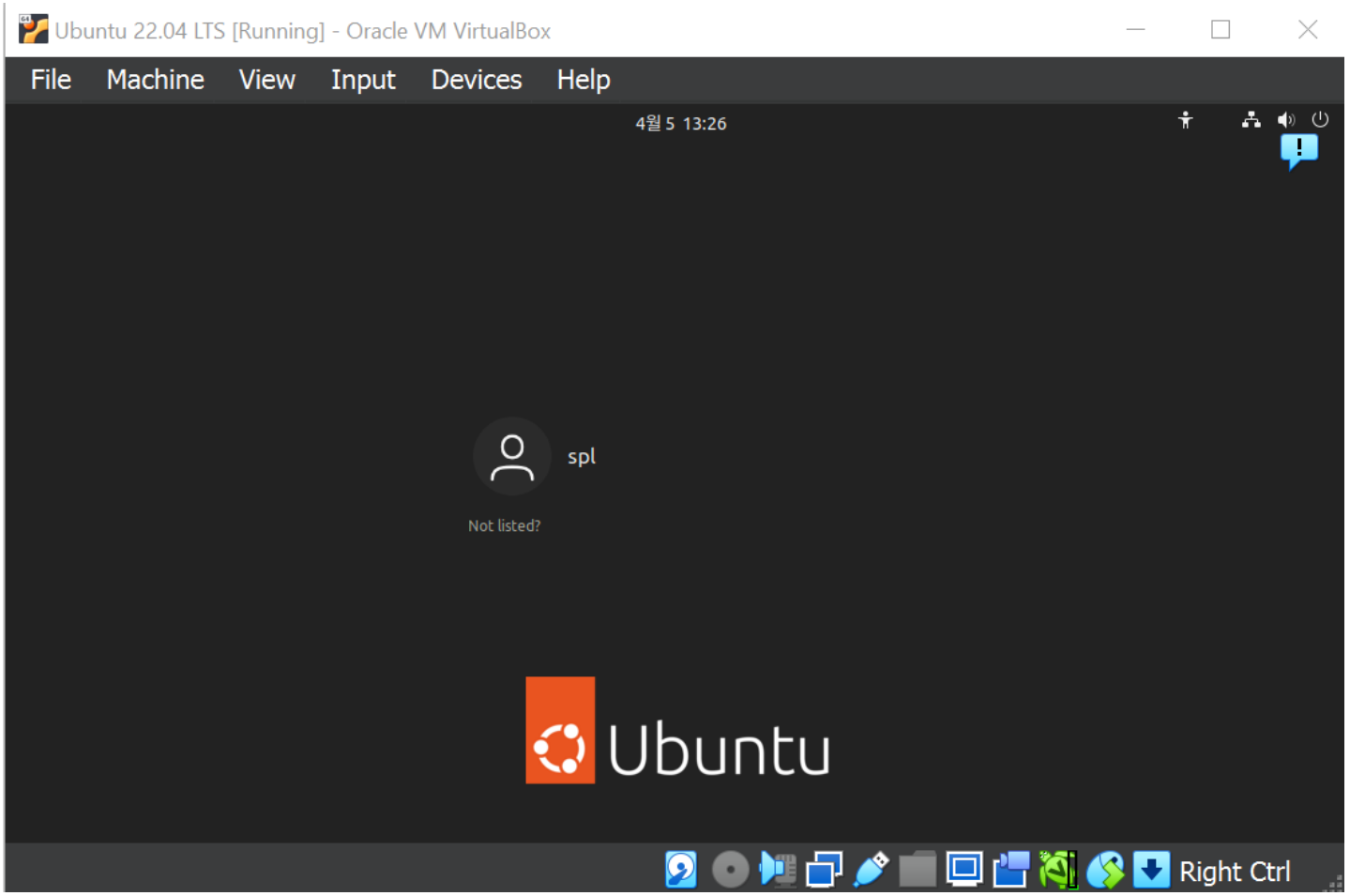
Starting a VM (1)

- Double-click on the VM, or click the “Show” button



Starting a VM (2)

- Wait for it to finish installing and now we're done!



Starting a VM (3)

- Let's test your VM
- Press *Ctrl + Alt + T* to launch a terminal (shell)
- Type the following commands:

```
$ sudo apt update
$ sudo apt upgrade
$ sudo apt install build-essential
```