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



Screenshots Downloads

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Virtual Box Download Virtual Box

search... Preferences

Here you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 6.1 packages, see VirtualBox 6.1 builds. Version 6.1 will remain supported until December 2023.

VirtualBox 7.0.6 platform packages

- ⇒Windows hosts
- ⇒macOS / Intel hosts
- ⇒ Developer preview for macOS / Arm64 (M1/M2) hosts
- Linux distributions
- ⇒Solaris hosts
- ⇒Solaris 11 IPS hosts

The binaries are released under the terms of the GPL version 3.

Installing VirtualBox (2)

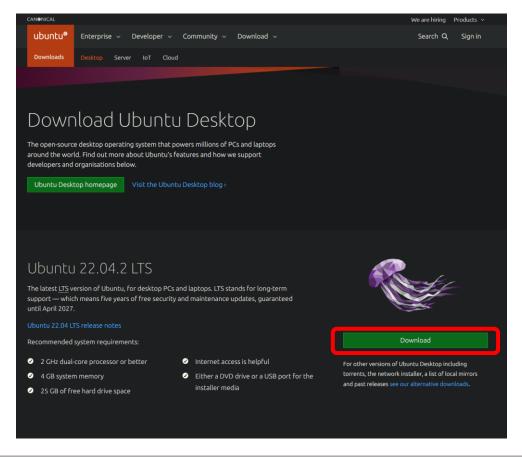
Next, Next, Yes, Yes, Install, Finish!





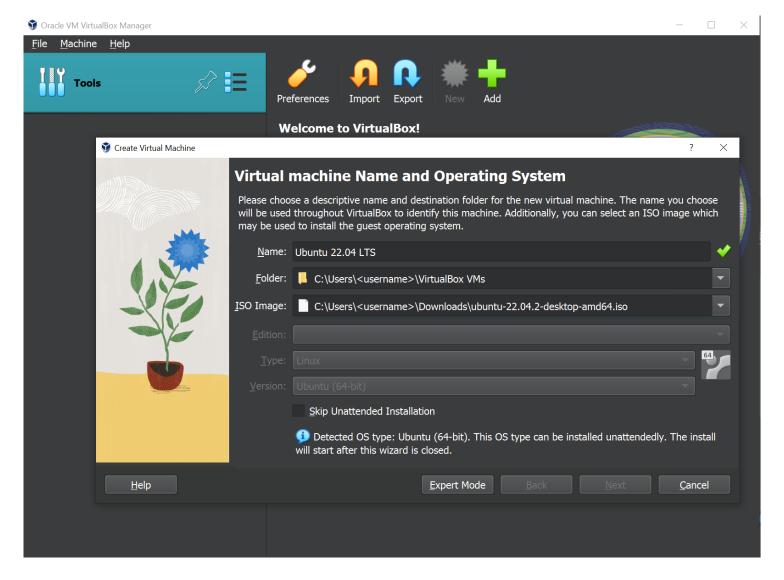
Downloading Ubuntu

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



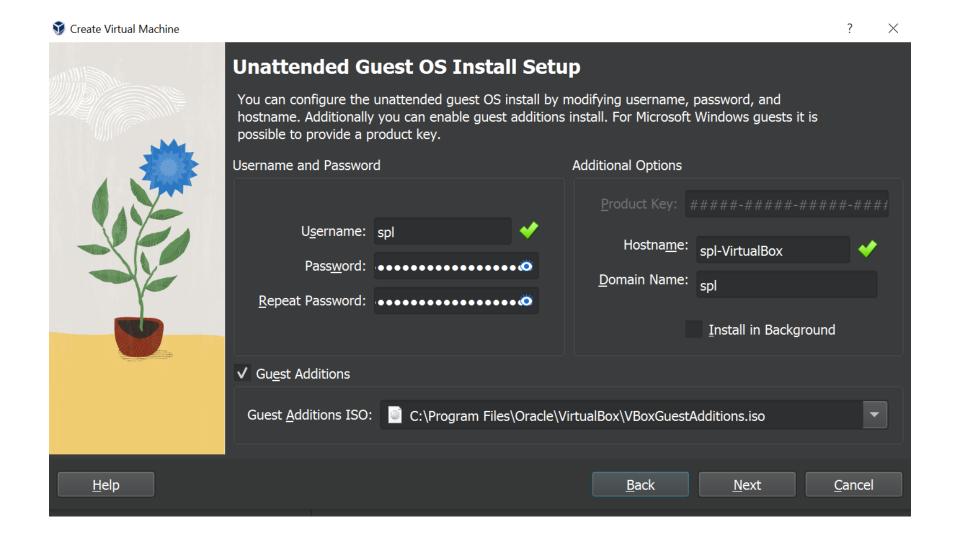


Creating a VM (1)



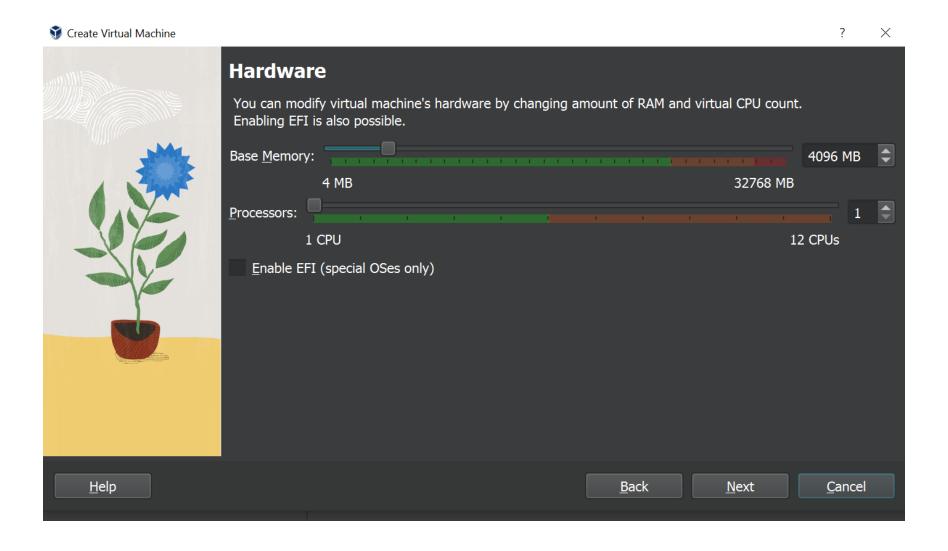


Creating a VM (2)





Creating a VM (3)



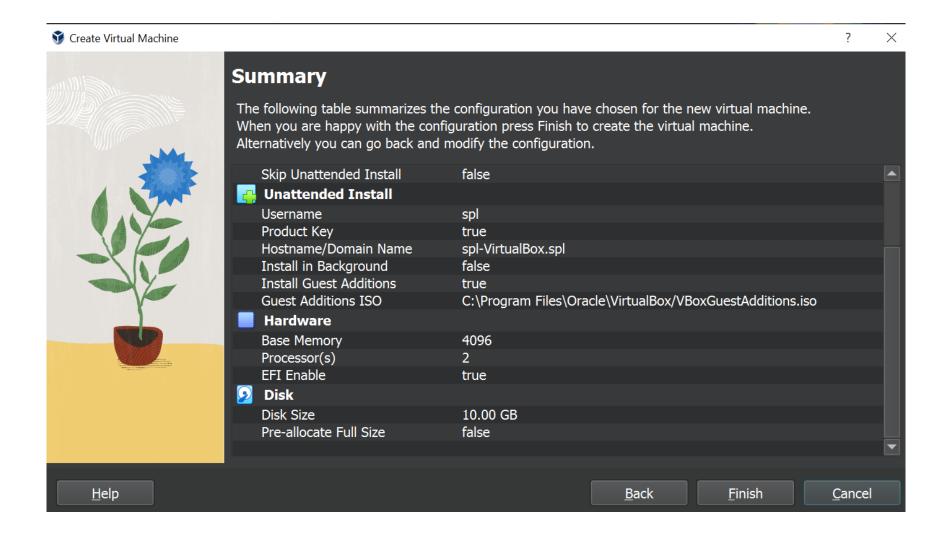


Creating a VM (4)





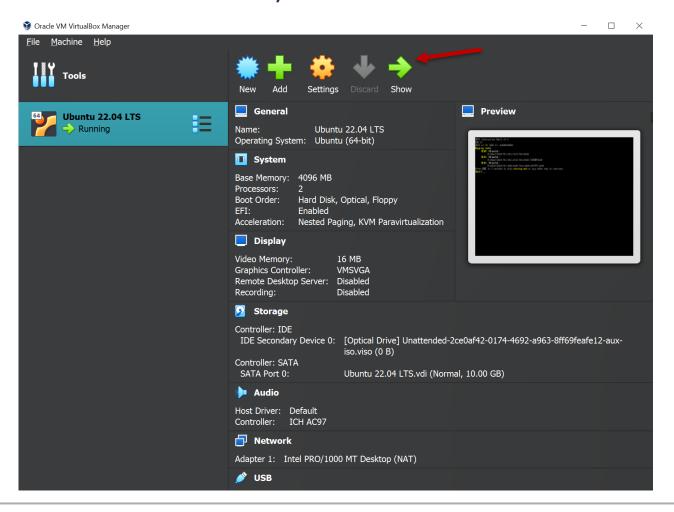
Creating a VM (5)





Starting a VM (1)

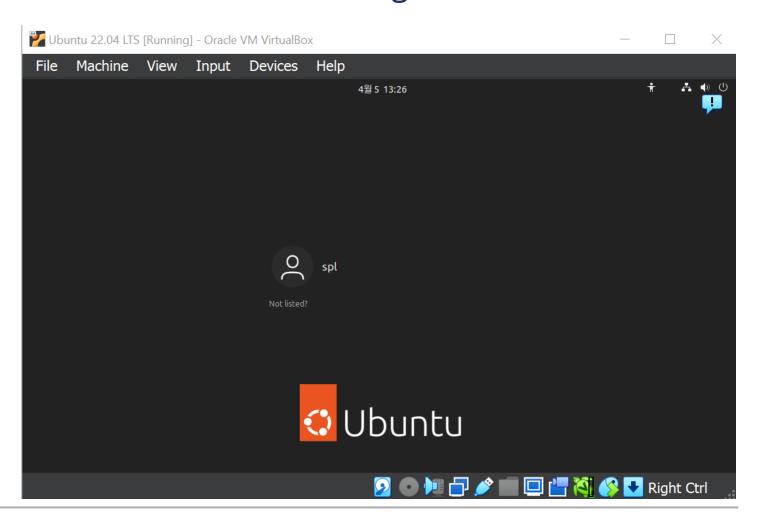
Double-click on the VM, or click the "Show" button





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

