

Week Report 2

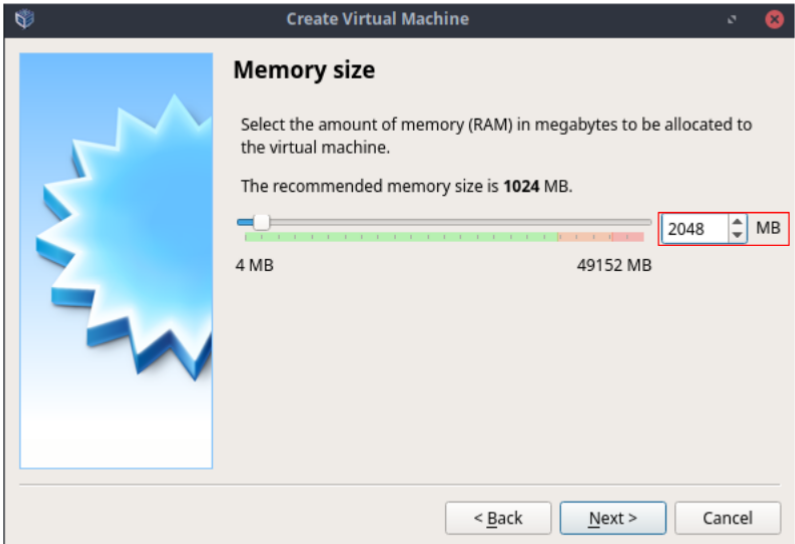
Basics of virtualization

1. **What is virtualization** Virtualization is a tool used to simulate a virtual machine inside of a physical machine
2. **Types of virtualization** The two types of virtualization are server-side virtualization and client-side virtualization. Server-side provides a virtual desktop to each user and most processing is done on the server. However, in client-side each user has its own operating system installed and the processing is done on their computer

Installing ubuntu in Virtualbox

- Ubuntu Memory Size

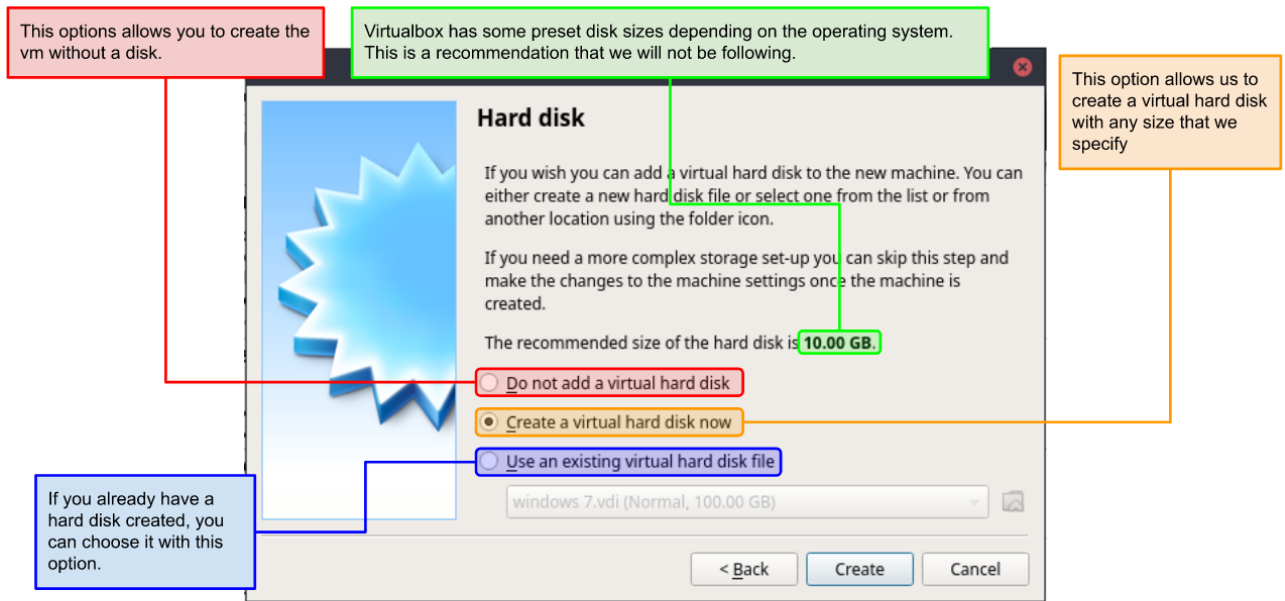
Ubuntu Desktop requires at least 2GB of RAM but if you have more than 8GB of RAM you can increase the amount of RAM you give the virtual machine without diminishing your host OS performance significantly.



Here is a tip.

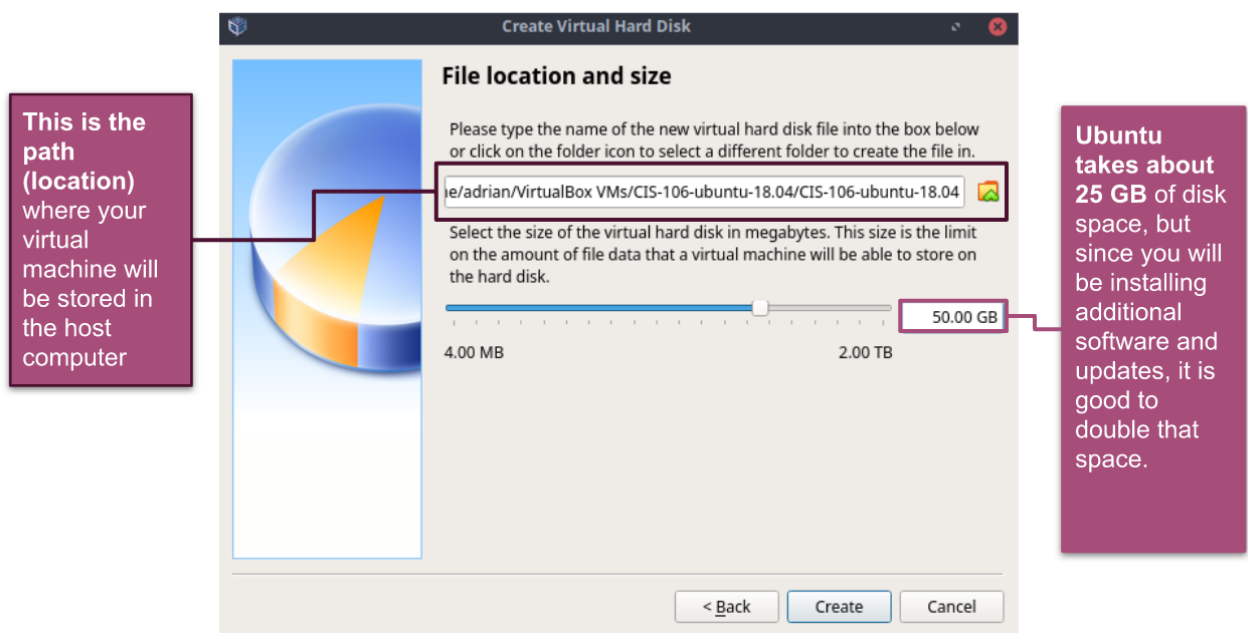
- If you plan to run only 1 virtual machine at a time and you have 8GB of RAM. You can give your vm 4GB of RAM and your PC will still be fast.
- If you have 4GB of RAM. Do not give your VM more than 2GB of RAM.

- Ubuntu Virtual Disk



5

- Ubuntu Disk Space



8

- Ubuntu RAM

This is the amount of RAM that your virtual machine is going to use. Do not give your virtual machine more RAM than you can afford.

- If you have 4GB of RAM, your VM must not use more than 2.

The chipset controls the communication between the CPU, RAM, storage and other peripherals. Virtualbox supports: PIIX3 and ICH9

When selected, OSes can use more than 16 interrupt requests (IRQs) and therefore avoid IRQ sharing for improved reliability. This is required when virtualizing 64 bit OSes.

Uses EFI instead of traditional BIOS. Only use this feature if the Guest OS supports EFI.

Here you can modify the order in which the virtual machine will look for available operating systems to boot. This is called the boot order.

A pointing device is a generic term for any device used to control the movement/position of the mouse cursor.

Uses UTC time for the hardware clock instead of the host time.

1
1

- Ubuntu Optical Drive

Storage Devices

Controller: IDE

Controller: SATA

Optical Drive: IDE Secondary Master

Attributes

Optical Drive: IDE Secondary Master

Information

Type: Image

Size: 1.98 GB

Location: /home/adrian/Downloads/...

Attached to: --

1
5