Week Report 2

The basics of Virtualization

Virtualization has two types of hypervisors, there's type 1 where it runs on the hardware. Then there's type 2, where it runs on a host operating system. Type 1 Example: VMware ESX and ESXi. Type 2 Example: VMware Workstation Player/Pro

Virtualization also has many benefits:

1. You're able to run multiple operating systems on a single machine
2. You're able to tryout untested programs without giving the host machine a virus or malware

In order to have a good experience using virtualization your computer must have the following specifications:

1. Quad core CPU or Dual core with a base frequency of 2.0GHz
2. 6Gb or more of RAM
3. 60GB or more of Free storage

What is virtualization: Definition: Is when you install and run multiple operating systems inside a physical machine

Types of virtualization:

1. Server-side virtualization: provides a virtual desktop to each user.

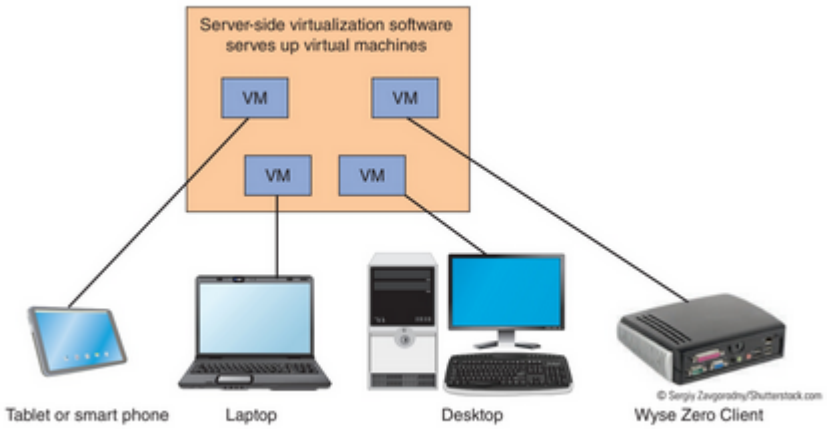
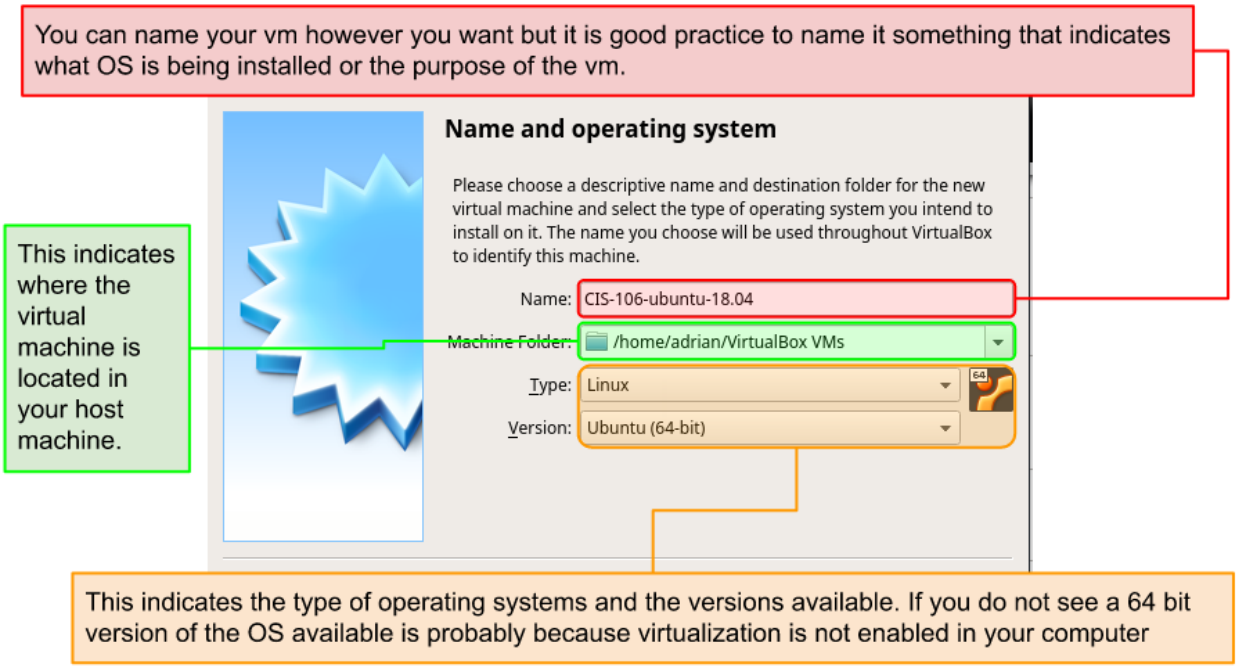


Figure 20-1 Server-side virtualization provides a virtual desktop to each user

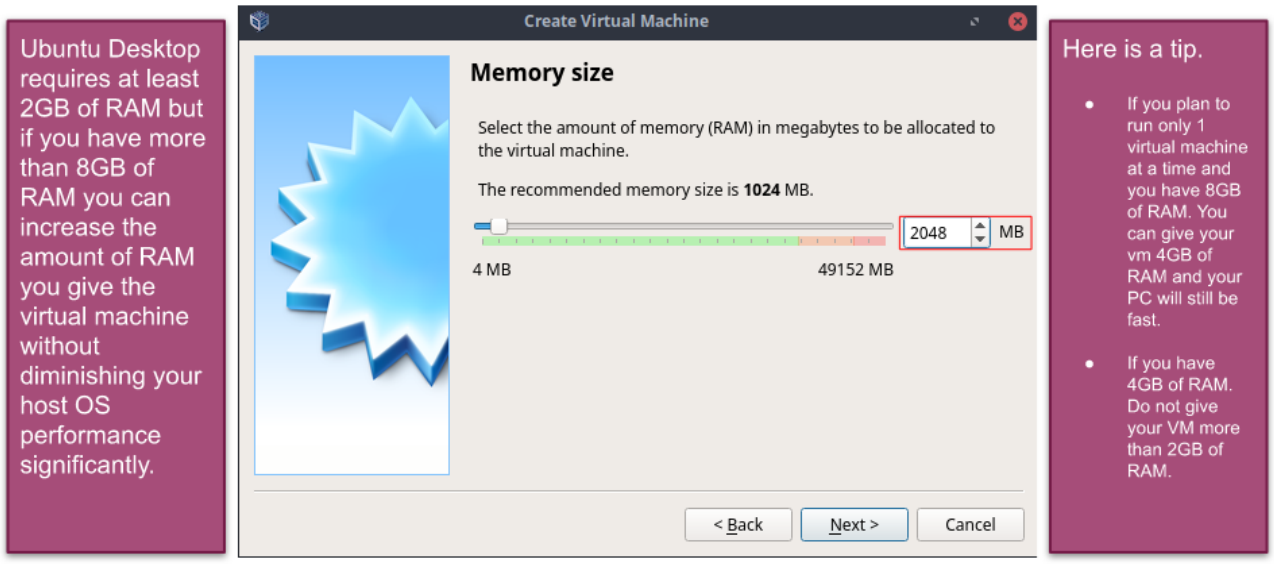
2. Client-side virtualization: is a software that manages virtual machines on your computer

Installing Ubuntu in Virtualbox

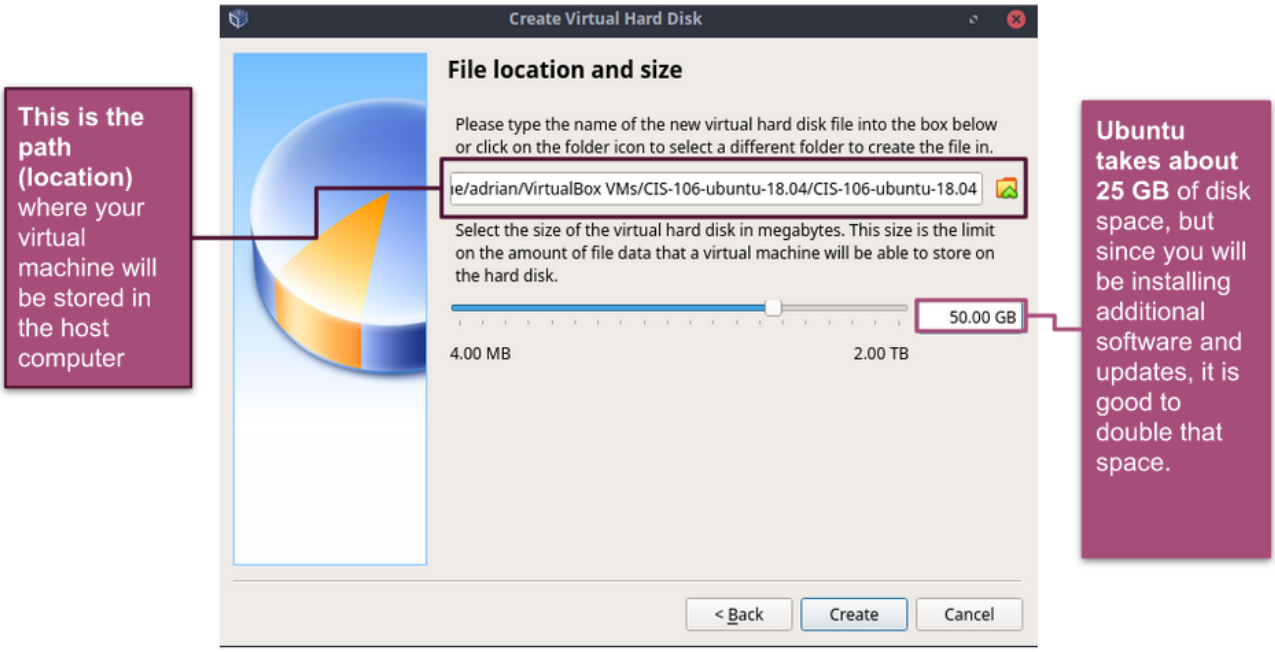
1. Confirming Virtualization is enabled



2. Required RAM for Ubuntu



3. Disk Space



4. How to update Ubuntu

Update Ubuntu 20.04

- Two ways:
  - Using Ubuntu Software Update
  - Using the command line
    - Command:

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sudo apt update; sudo apt upgrade -y; sudo apt full-upgrade -y
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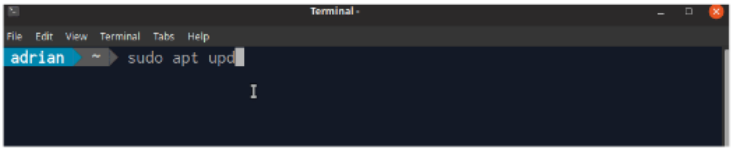

5. Always take a snapshot

Take a snapshot of a virtual machine

Always take snapshots of your virtual machine turned off to reduce the size of the snapshot.