Cloud computing and big data

Practical exercise

<mark>Delivery date:</mark> 5/4/2025

1. Install the Oracle VirtualBox or VMWare hypervisor
2. Install Linux Ubuntu as a VM inside the hypervisor
3. Configure a webserver inside the Linux environment (you can use Apache web server)
4. Create a simple webpage
5. Access it within the virtual machine you just created (i.e. open a browser inside the VM and access the webpage you just created)
6. Create another VM that has Ubuntu OS
7. Try to access the webpage you just created from this VM
8. Try to access the webpage you just created from your host machine OS (From your Windows OS for example)
9. Find a way to transfer a file between the two VMs
10. Find a way to transfer a file between the VM and the host machine.

Assignment delivery method:

<mark>Step 1</mark>: You need to create a video showing the project details and how you were able to transfer files from the host machine to the virtual machine and how you were able to transfer files between the virtual machines inside the hypervisor.

<mark>Step 2:</mark> you need to upload the video on YouTube or in a shared folder (google driver or Dropbox) for example, then you need to fill up the submission form below and include the video URL you just created.

<mark>Assignment submission form:</mark> https://forms.gle/ppkEYhBtB1THUUcKA

Notes:

1. Below are some useful related links:
http://www.ubuntu.com/download/desktop
https://www.virtualbox.org/wiki/Downloads
Step by step tutorial:
http://www.wikihow.com/Install-Ubuntu-on-VirtualBox

Virtual machine images
https://www.osboxes.org/

VirtualBox hypervisor URL
https://www.virtualbox.org/wiki/Download_Old_Builds_6_1

2. I am attaching some relevant tutorials/document to help you in this assignment
3. You can use AI tools such as ChatGPT to give you the needed steps to do this assignment.