IT Technology

Assignment 3 - VMware Workstation and VM installation

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1 Introduction

In the next chapters it will be presented this week (36) assignment, documenting how to install Vmware work station (Virtual Machine Work station) and the OS Ubuntu. In the new OS (Operating system) it will be presented also how to install it and set up the internet connection.

2 Tasks

· Install VM Ware Workstation (VMWW) on a Lap Top host computer.
· Install a Xubuntu Linux Virtual Machine (VM) in VMWW.
· Connect the Linux VM to VMnet8 in VMWWW
   - VMnet8 will share the Lab Top hosts internet connection which means that the Linux VM should now have internet access via VMnet8.
· Run the default internet browser on Xubuntu to verify that this Xubuntu.

3 Audience

The main audience for this report is people without advanced knowledge about installing VM (virtual machines) and another OS (operating system) such as Ubuntu inside the VM. The wide audience can be formed of students, employees or people that have to install another OS on their computer.

4 Inventory

In order to proceed to the next step, which is downloading, and installing the VM (virtual machine) the next components and software are required:

Vmware workstation
A laptop
Internet connection
An xubuntu-20.04.3-desktop-amd64.iso

5 Tasks
• Install VM Ware Workstation (VMWW) on a Lap Top host computer.
• Install a Xubuntu Linux Virtual Machine (VM) in VMWW.
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6   How to install a Xubuntu Linux computer Virtual Machine (VM) in VMWW and setting internet

The first step is downloading the Virtual Machine (VM), which can be found on VMware.com website as seen in picture number 1. Depending on your operating system (OS) download the Workstation 16 Pro for Windows or Linux.
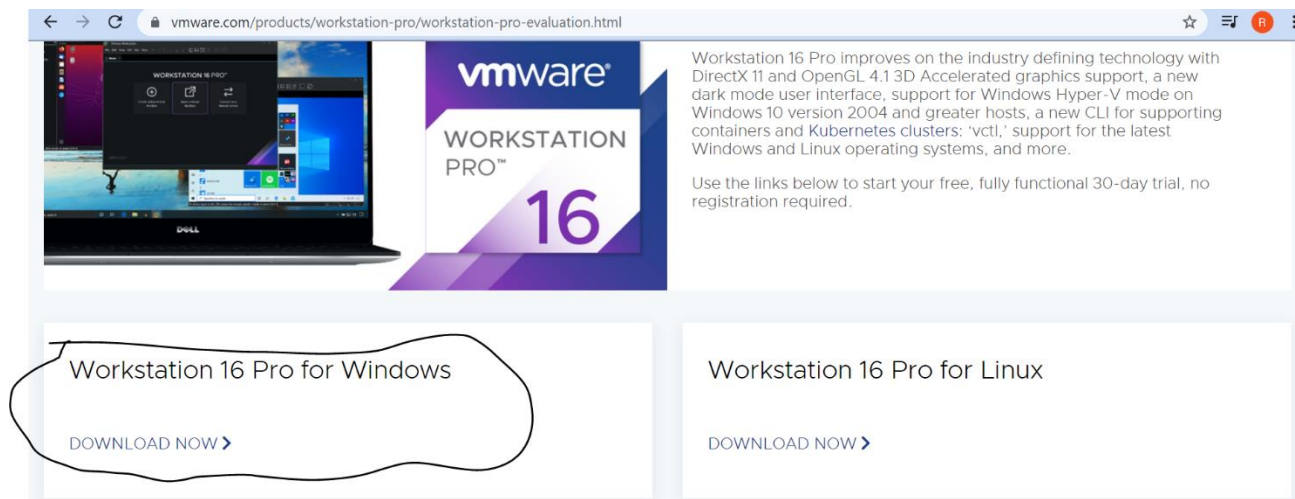
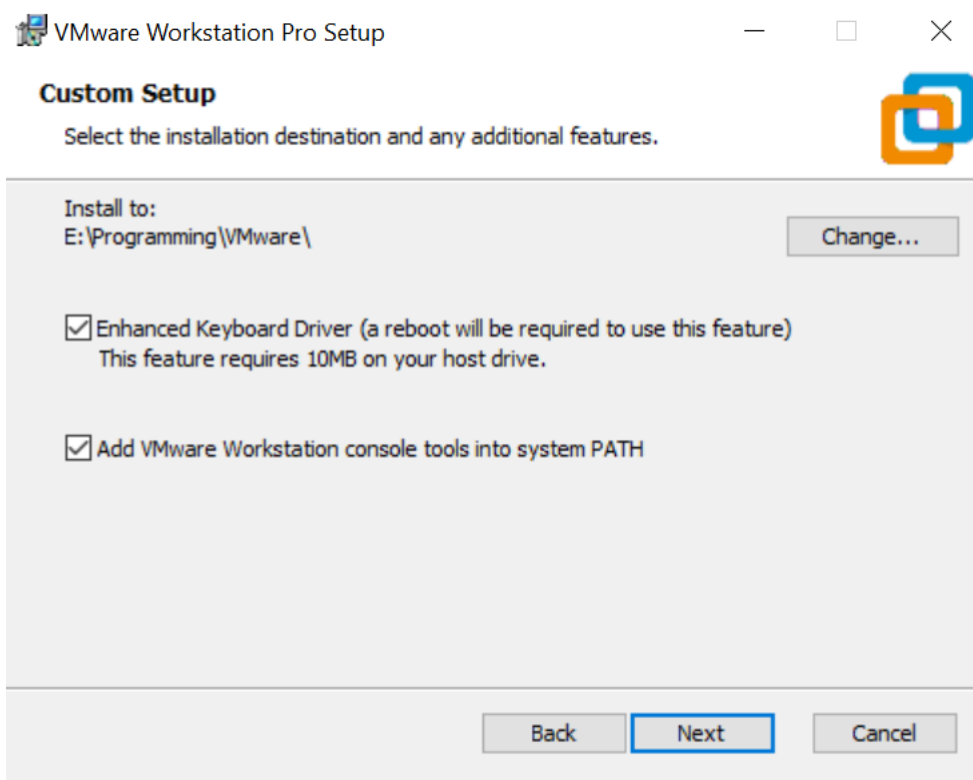*Picture 1; Source(vmware.com/products/workstation-pro)*

After the download is complete, we can double click on the file and start installing the Vmware Workstation following the classical steps as seen in picture 2 and 3, setting up the wizard, selecting the directory, etc.
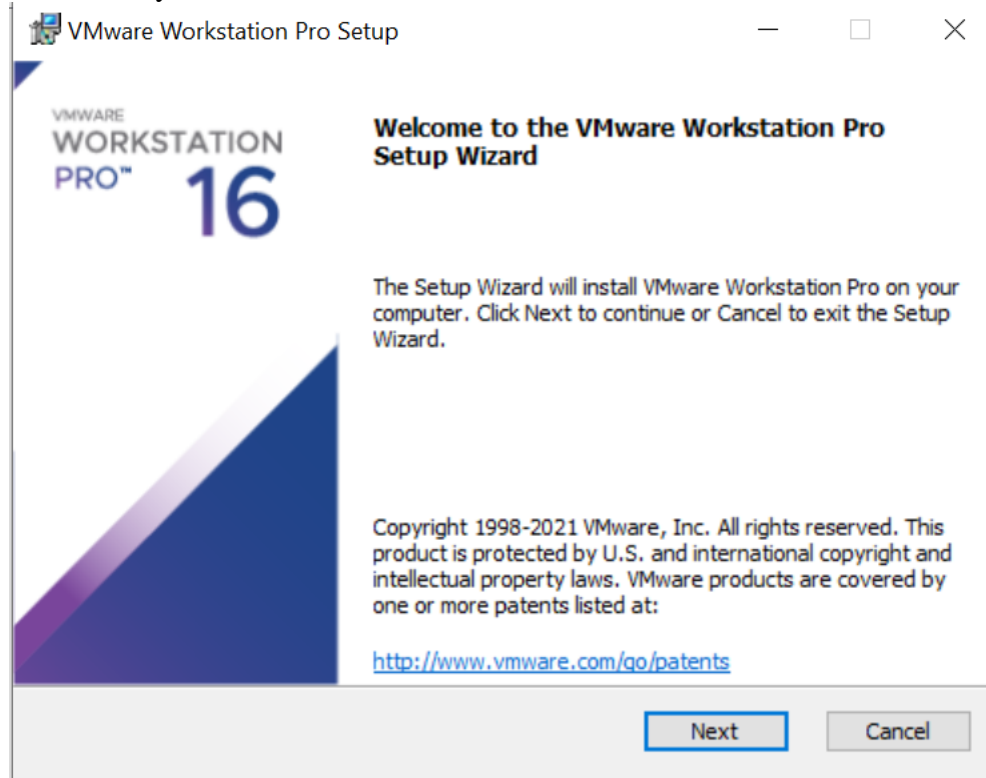
*Picture 2; Source (VM workstation software)*

Picture 3; Source (VM workstation software)

After we have installed the VM Workstation we can proceed with installing Ubuntu. By downloading it from the website Xubuntu.org and selecting the xubuntu 20,04.3 the iso version as seen in the picture 4 below.


Picture 4, Source(https://xubuntu.org/download)

After we have downloaded the xubuntu we need to upload it in the VM by inserting the image (iso). Clicking in the upper part File -> new virtual machine-> it is recommended to use the *Typical* configuration, but if we want to make specific changes such as the disk type, we select *Custom.* After pressing next we need to chose the directory where we have the iso with the Xubuntu.
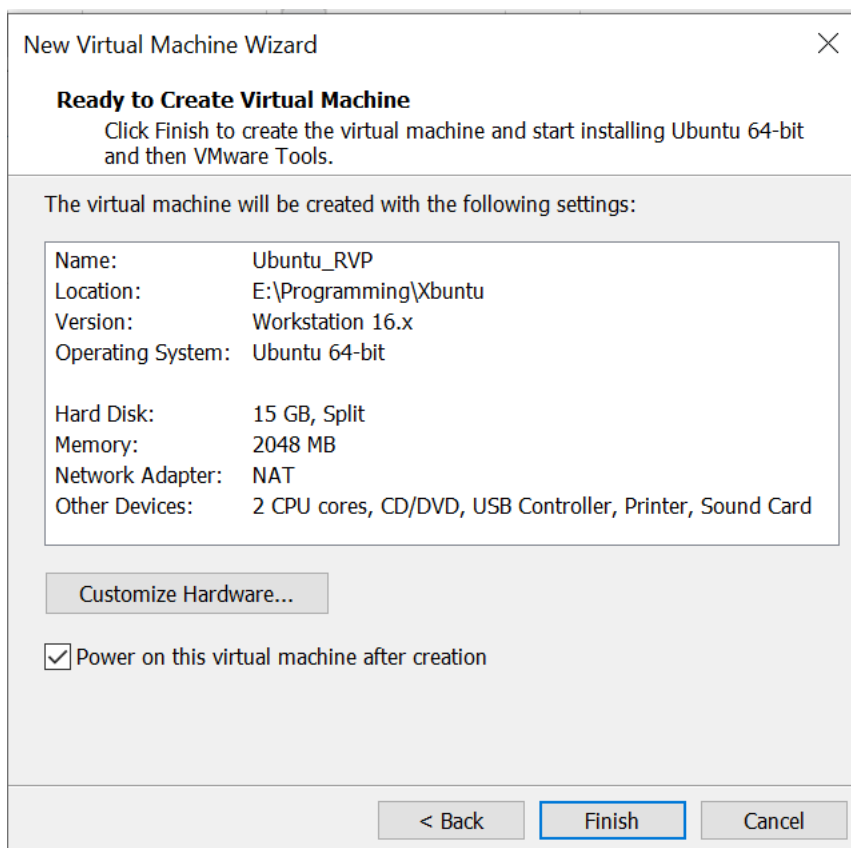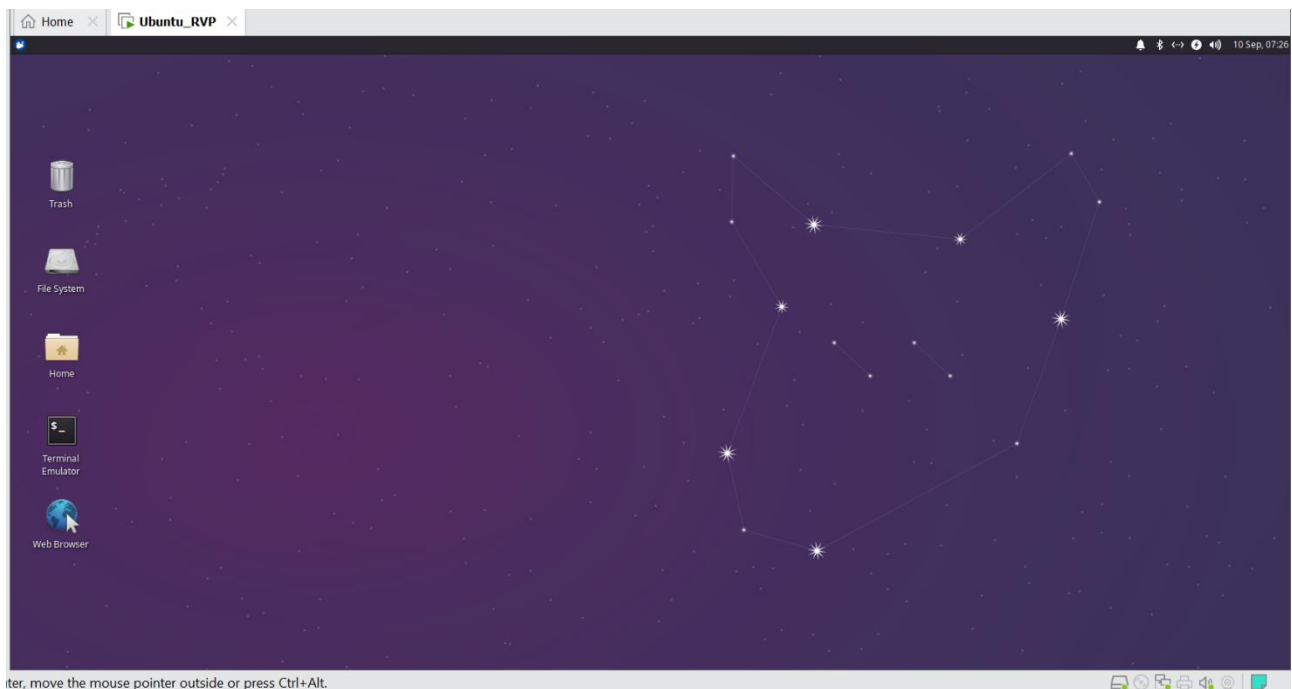
Picture 6

IT will take a couple of minutes to have it installed. After we have successfully installed it we open it by pressing the play button (green one) as seen in the picture 7.
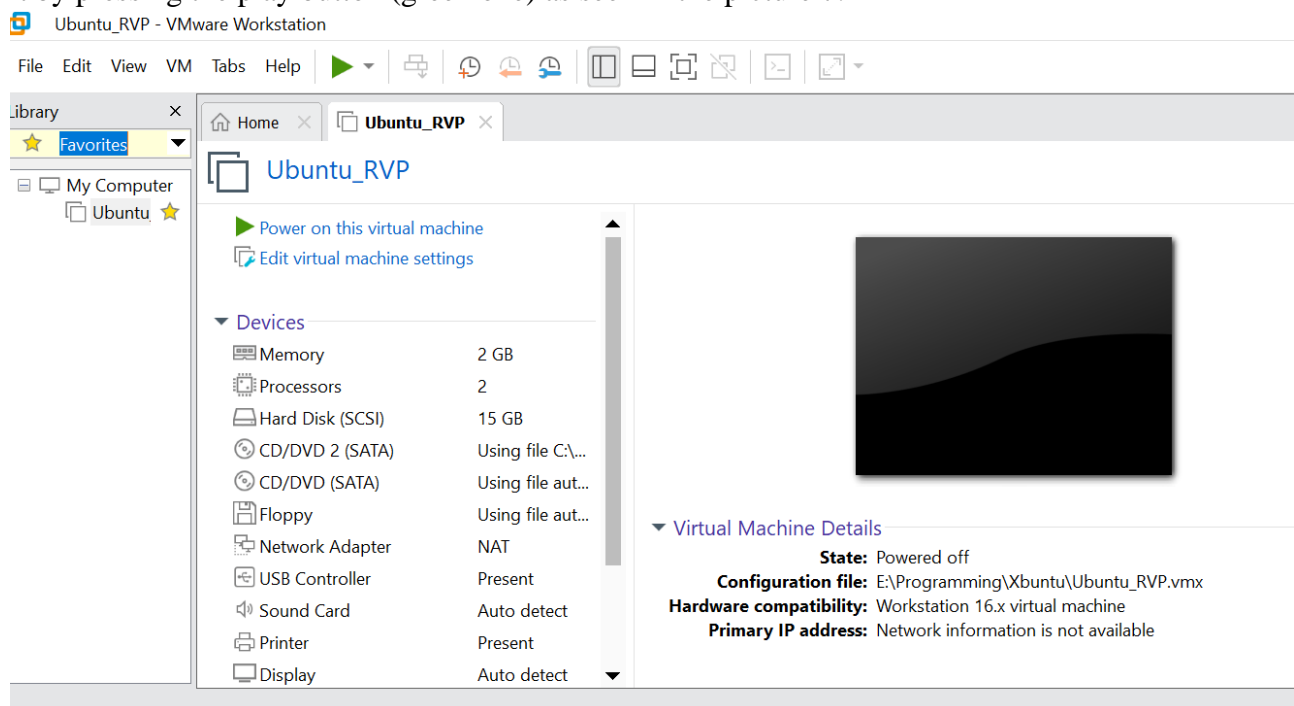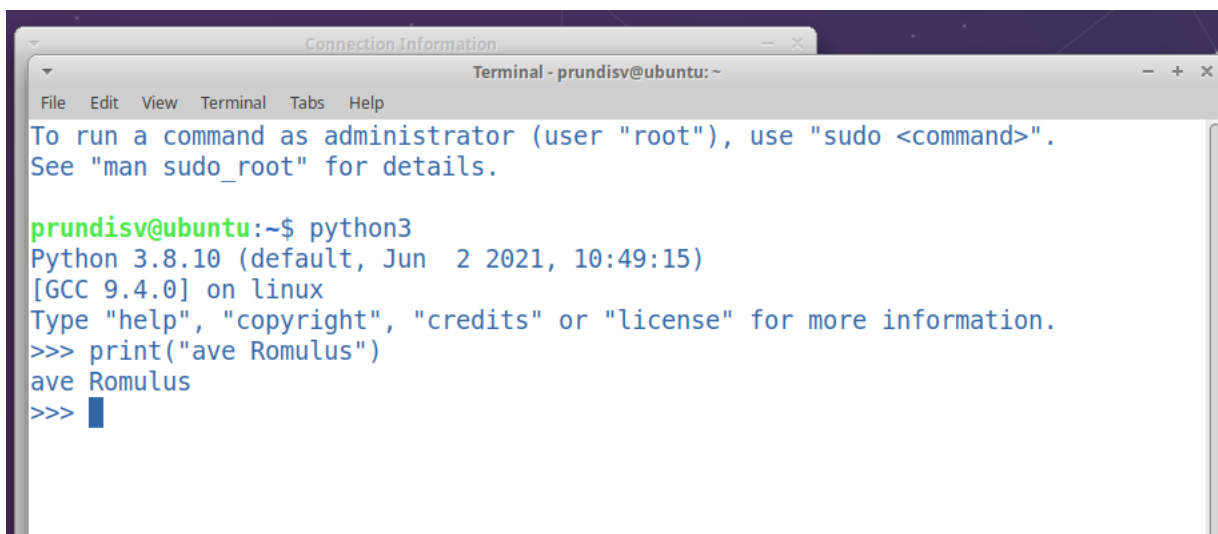

Picture 7; Source (VM software)

Picture 8 (own source)

As seen in the picture 8, we were successfully and we should have the same desktop image after installing Ubuntu. Also, as python is included in the Ubuntu OS, we have it already installed as we can see in picture 9.

Picture 9 (Own source from python)

Now that our new OS is working there is only one problem, we don't have internet. We need to set it.

First we need check if the Subuntu base machine is connected VMnet8. We left click our Ubuntu machine => enter Settings => and we search for Network adaptor and we modify in the left to Custom Specific virtual Network and we select VMnet8 (NAT) and we press OK. As in picture 12 we can see where our Ubuntu is connected now.
After we enter at the top bar and press in the Eddit => Virtual Network Editor

We need to set the name number in the settings as in picture 10 or 12 in the Subnet IP and mask.

Picture 10

After we set the NAT settings copying the same number and after we click apply. Now we should have configured VMnat 8 to have internet access. After we just need to close and turn on our internet connection and we can test if we can internet.

Picture 11

To understand how to VM is connected to the internet we need to follow the picture underneath that describes how our VM is connected to the internet (Wifi).
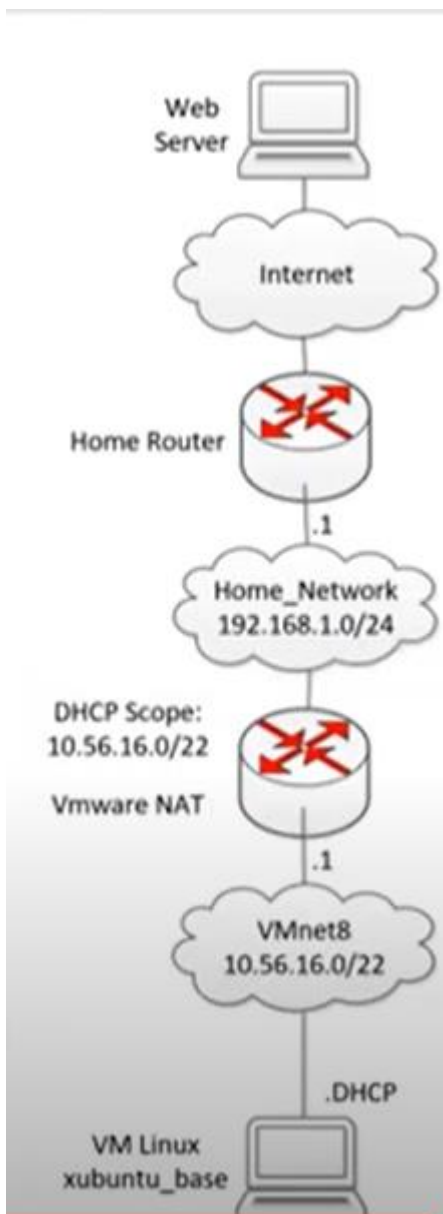
Picture 12 (Per source)

We have to set the internet in the Ubuntu to the VMnet8.VMnet8 = gives as access to the laptop network interface. VMnet8 is the Ubuntu – where our ubuntu internet interface is connected to.

As we can see in picture 13, we have internet access.
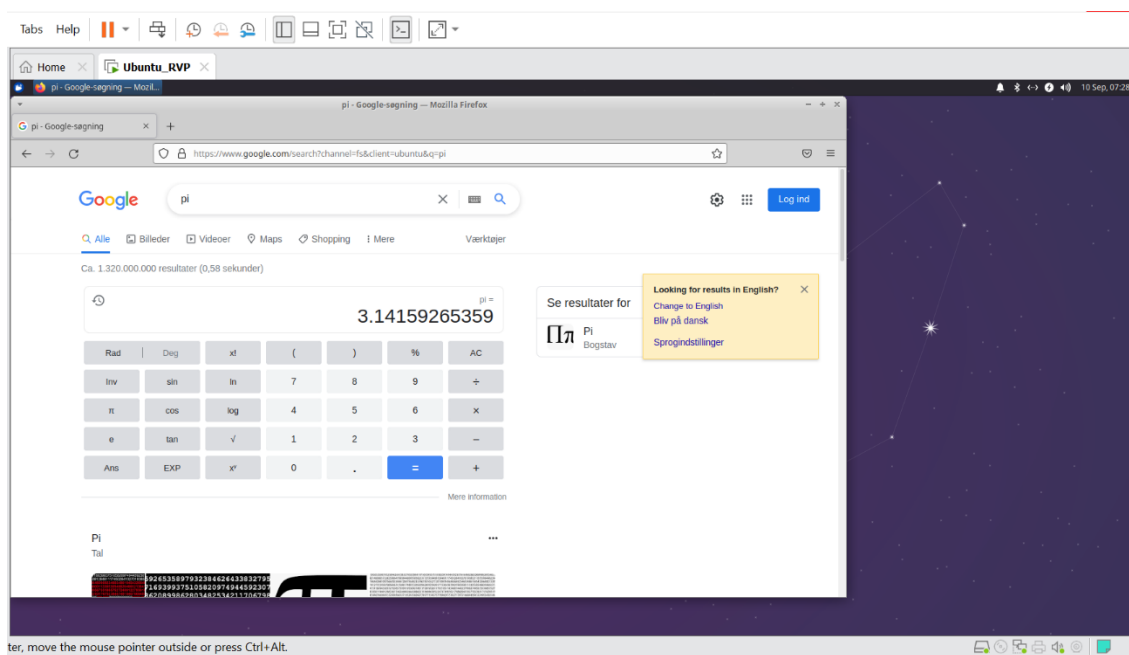
Picture 13

7   Sources

The sources are from the software and webpages we used to install the VM and the new OS:

vmware.com/products/workstation-pro
https://xubuntu.org/download
VM workstation software

8   Conclusion

Congratulations, if we have got to this step then it means we have successfully installed the virtual machine and the Ubuntu on it, and we are online.

Add here the learning goals

Learning goals

After this assignment the student can:

· Install a hardware and network virtualisation management tool on a Lap Top host computer.

· Install a Linux host on the hardware and network emulation management tool.

· Superficially explain what a hardware emulator or Hypervisor

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