# IT Technology
# Assignment 3 VMWare Workstation installation



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**Table of Contents**

# 1. Introduction

This assignment will cover the installation of VMWare Workstation and the set up of a virtual machine with XUbuntu on Ubuntu Linux.

This assignment is using the VMWare Workstation hardware and network virtualisation management tool. From now on VMWare Workstation is referred to as: VMWW.

# 2. Audience

This guide is for Linux (Ubuntu) users who want to install a virtual machine and/or want to use VMnet8 network capabilities.

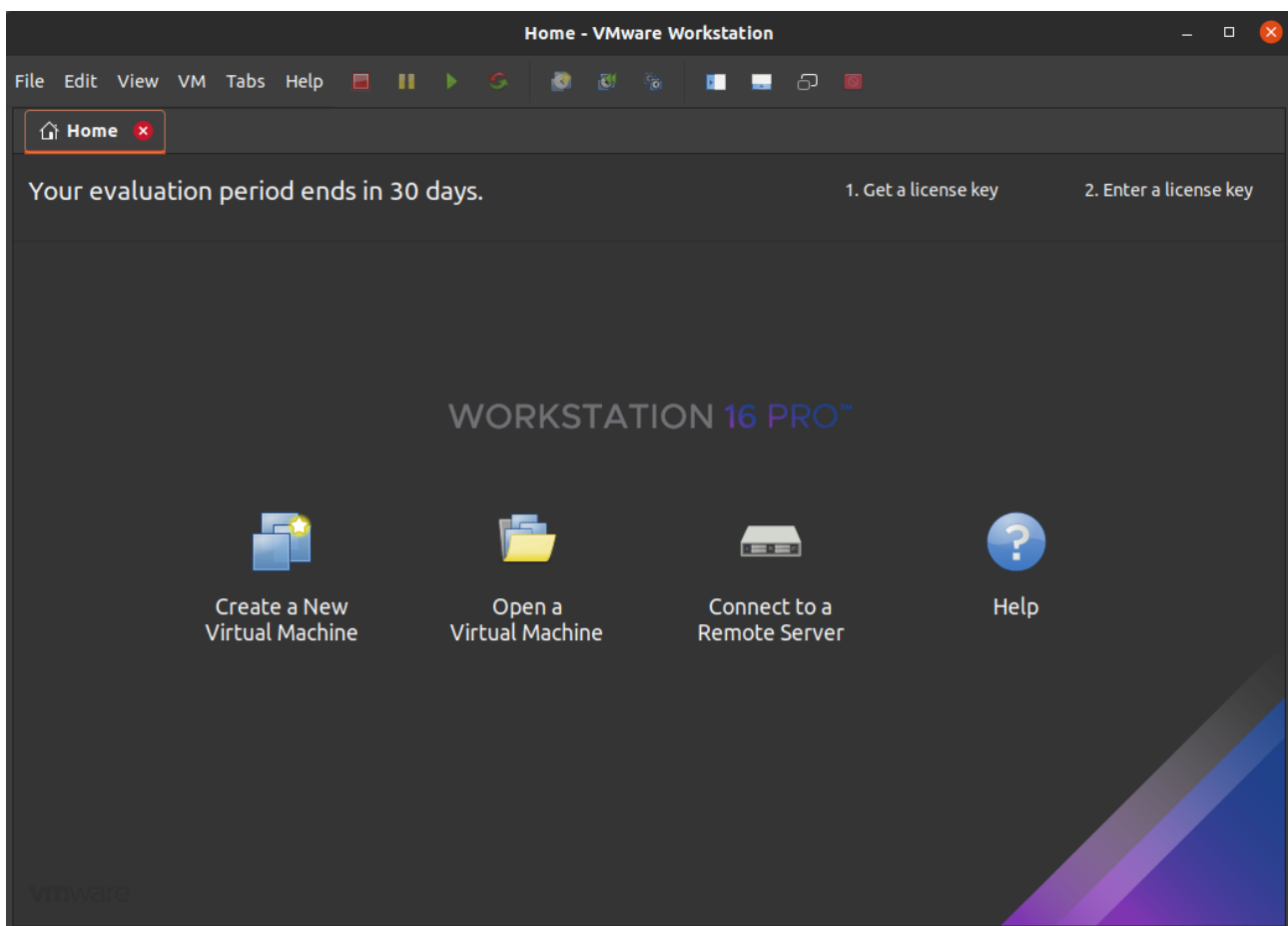There's no previous knowledge required to complete this guide.

# 3. Inventory

The following list contains the software that is used to complete this guide.

- VMWW 16, virtual machine software
- XUbuntu v20, linux distro running on VM

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## 4. Install VMWW on a Laptop host computer.

1. Download the installation file
2. Go to the VMWW 16 download page [1] and click on the 'Download trial' button. Click the 'Download now' button for linux .
3.
4. Install VMWW
5. Once the file is downloaded, open a new terminal window and navigate to the Downloads folder.
   ```
   $ cd Downloads/
   ```
6. In the Downloads folder, run the installer file as administrator.
   ```
   $ sudo sh VMware-Workstation-Full-16.1.2-17966106.x86_64.bundle
   ```
7. When the installation is finished, complete the setup by opening the VMWW application.



This is the homescreen of VMWW when it is successfully installed.

A detailed version of the installation is available on the VMware website[2].

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[1] "Windows VM | Workstation Pro | VMware | DK." *VMware*, 30 Aug. 2021, https://www.vmware.com/dk/products/workstation-pro.html. Accessed 8 Sept. 2021.

[2] "VMware Linux Installation." *VMware Knowledge Base*, https://kb.vmware.com/s/article/2057907?lang=en_US&queryTerm=install%20vmware%20workstation%20linux. Accessed 8 Sept. 2021.
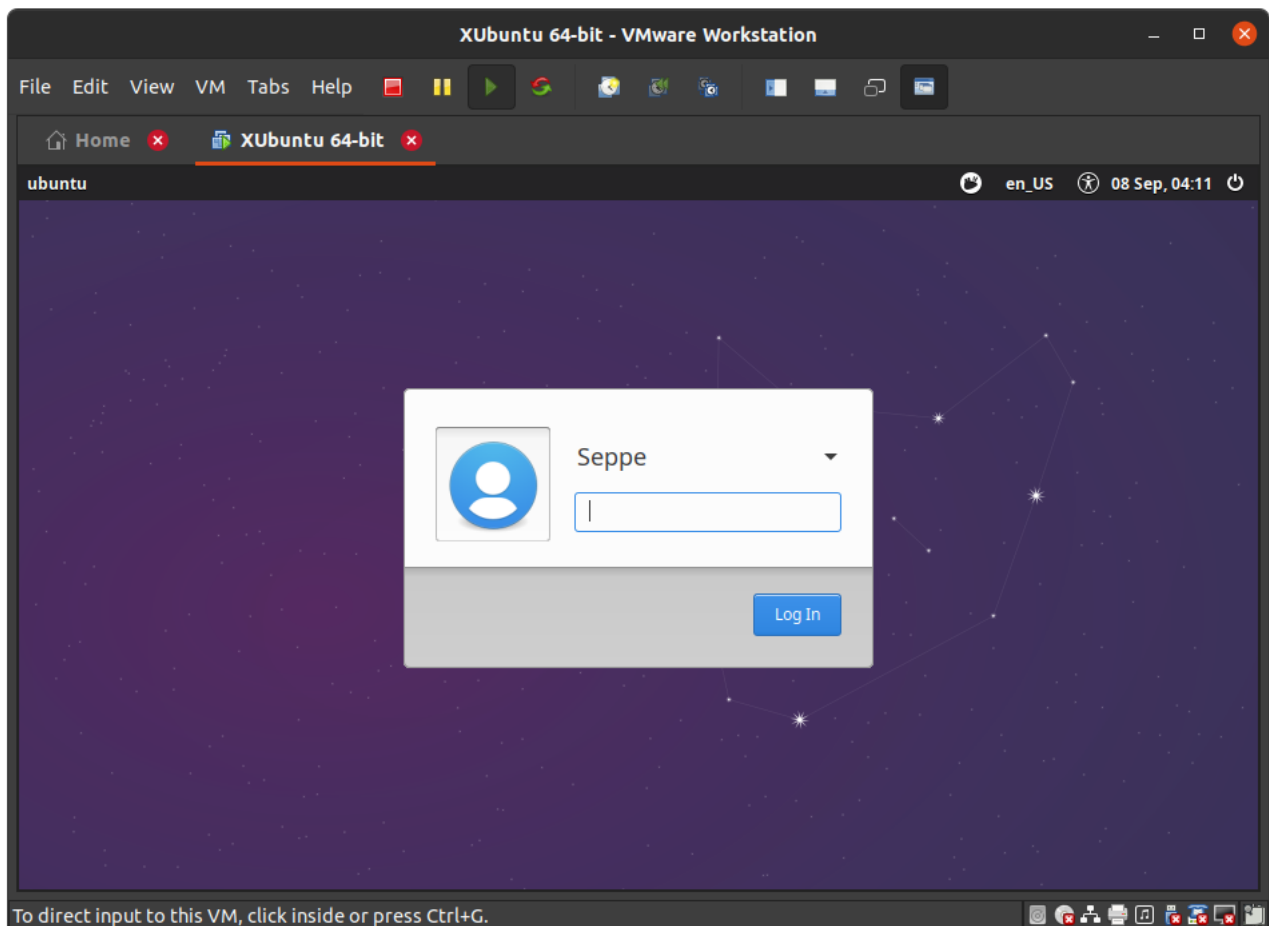
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## 5.  Install a Xubuntu Linux Virtual Machine (VM) in VMWW.

1. To install Xubuntu on the VM, first download the Xubuntu ISO file[3].
2. In VMWW, select 'Create a New Virtual Machine'.
3. Select 'Typical' and click 'Next'.
4. Select 'Use ISO image' and browse to the recently downloaded Xubuntu ISO file and click 'Next'.
5. Enter your name and password and click 'Next'.
6. Choose a name and location for  the VM and click 'Next'.
7. Choose a maximum disk size (e.g. 15GB), select 'Split virtual disk into multiple files' and click 'Next'.
8. There's an overview of the VM, make sure its correct and click 'Finish'.
9. Now you can start up the virtual machine and log in with your password.



When you press the green play button, the virtual machine will start the Xubuntu os.

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[3] The Xubuntu community. "Download Xubuntu « Xubuntu." Xubuntu, https://xubuntu.org/download.  Accessed 8 Sept. 2021.
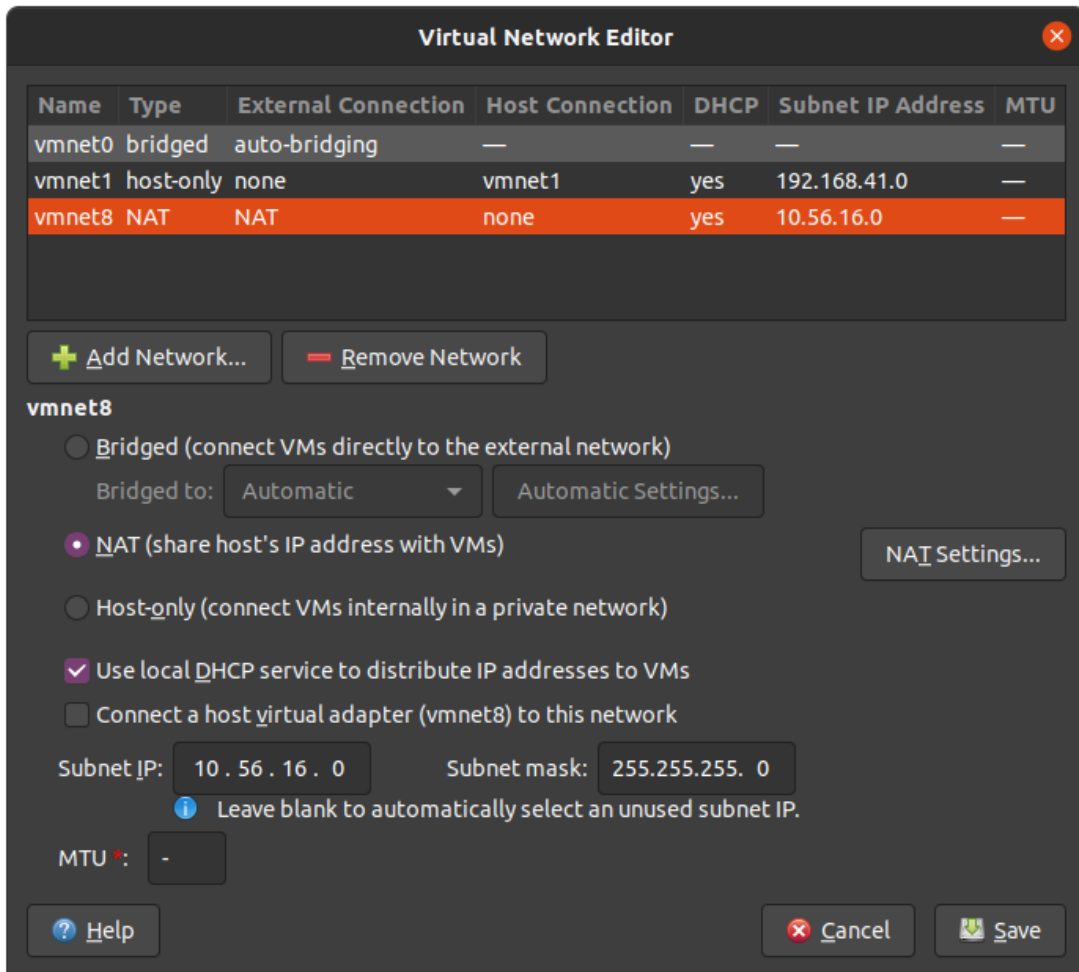
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Once the virtual machine is booted, you will be able to login to Xubuntu.

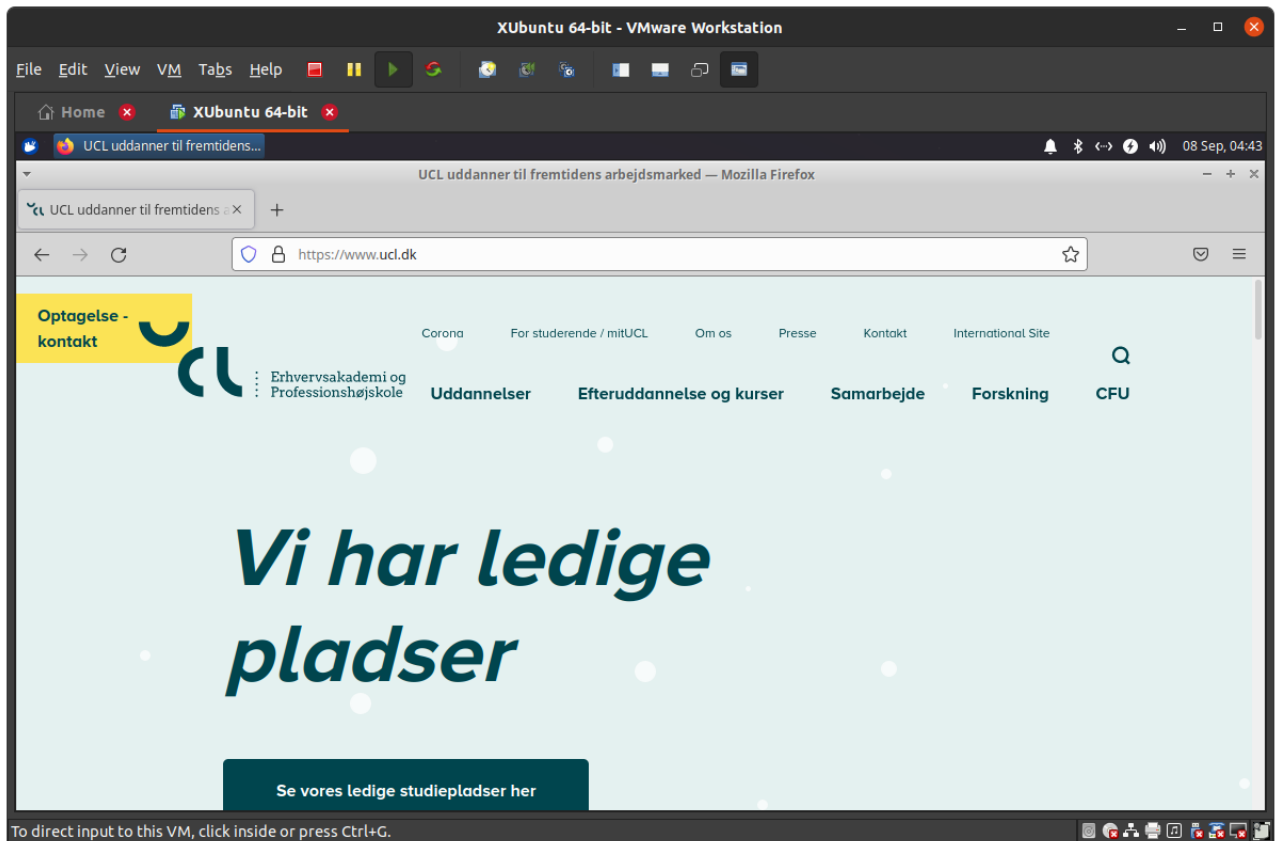## 6. Connect the Linux VM to VMnet8 in VMWW.

1. In VMWW, go to the VM tab and select 'settings'.
2. Go to Network adapter and select 'Custom: virtual network'.
3. In the Custom section, select 'VMnet8' and 'Save'.
4. Go to the Edit tab and select 'Virtual Network Editor' and type in your password.

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5. In this window select 'VMnet8' and copy the settings from the screenshot below:



Virtual Network Editor settings to connect to the internet using VMnet8.

6. Click 'NAT Settings' and write **10.56.16.1** in the Gateway IP textbox.
7. Click 'Save'
8. Click 'Enable Networking' by going to the network icon in the upper right corner.
9. Click 'Enable Networking' again to establish a connection.
10. Now you are ready to browse the internet with VMnet8.

Internet connection with VMnet8 on Xubuntu linux using VMWW.

## 7.  Hypervisor

VMWW is a hypervisor. It creates virtual machines and assigns resources to them. In easy words: it creates a computer on top of your computer.

## 8.  Conclusion

Now the installation of VMware and Xubuntu in VMware is completed. To make multiple VM's, just repeat the process or duplicate the one that has just been created.

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