Linux installation

Due date

- End of Week 2 lab class

Submission

- Show the professor that you have completed Lab1 on your laptop.

Evaluation

- 3% of final mark

Materials

- Student laptop computer with VMware Workstaion 10.0.3 installed
- Ubuntu 14.04.1 Desktop ISO image

Procedure

In this lab you will be installing a copy of Linux within a VMware Virtual Machine. This virtual machine will give you a Linux environment that you can use for future lab work.

1. Create a new virtual machine

a) Start **VMware Workstation**.

b) Select **File → New Virtual Machine → Next.**

c) Type of Configuration: **Typical (Recommended)**

d) Guest Operating System Installation: choose "**I will install the operating system later"**

e) Guest operating system: choose **Linux,** and Version: choose **Ubuntu**
Any options not specifically mentioned below should be left at default values.

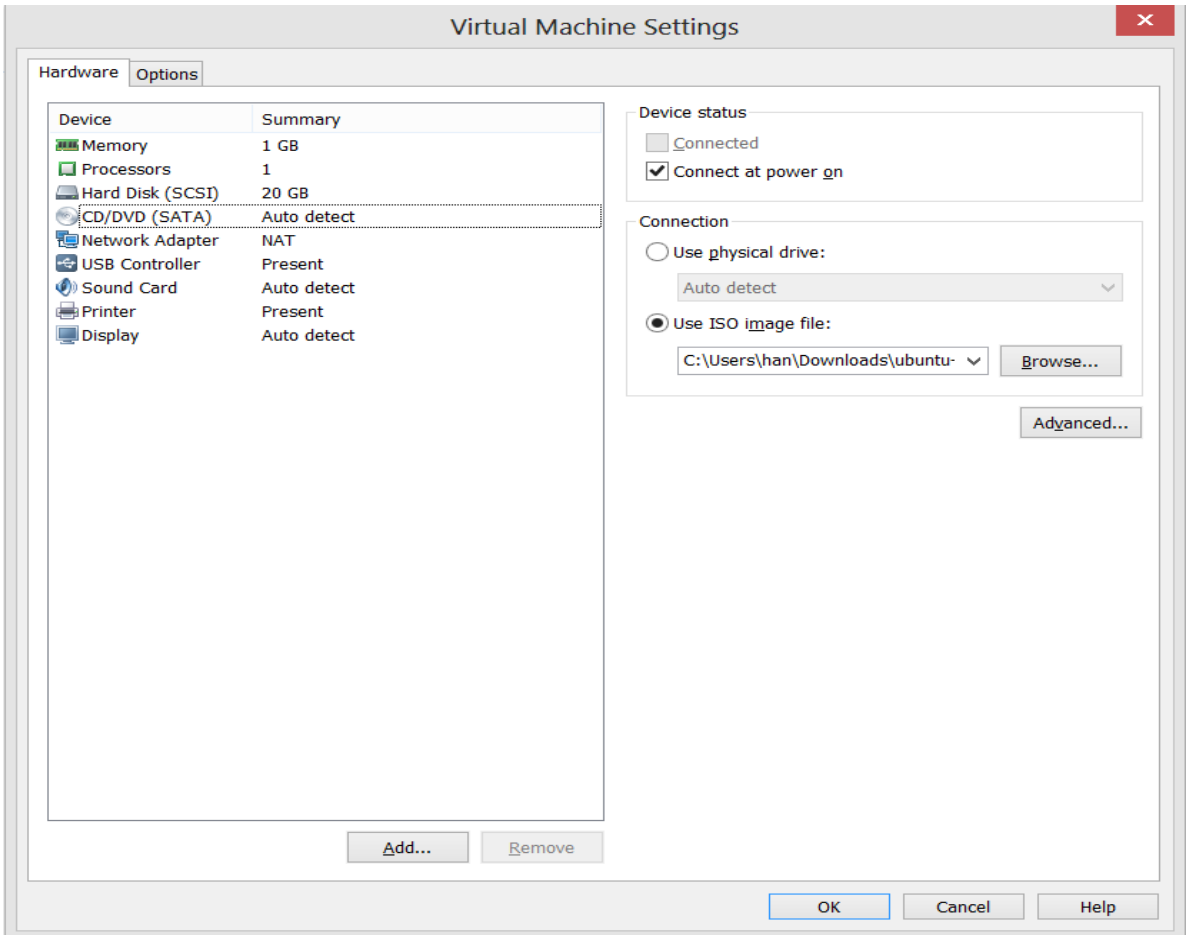
2. Mount Ubuntu ISO image file

a) Get Ubuntu Desktop 14.04.1 ISO image :

Download the image from http://www.ubuntu.com/download/desktop/
Note: If your laptop is not working with the 64-bit image, dowload the 32-bit image instead

b) Mount the ISO image to the Ubuntu virtual machine:

Click **CD/DVD (SATA) → Connection → Use ISO Image File → Browse** to find the ISO image



3. Start the Ubuntu Virtual Machine

a) Click **Power on this virtual machine**

b) Linux installation will start automatically.

c) Click "**Install Ubuntu**" in the Welcome screen

d) Click "**Continue**" for "**Preparing to install Ubuntu**"

e) Click "**Install now**" for "**Installation type**"

f) Type and select "**Ottawa (Ontario, Canada)**" in "**Where are you?**" screen

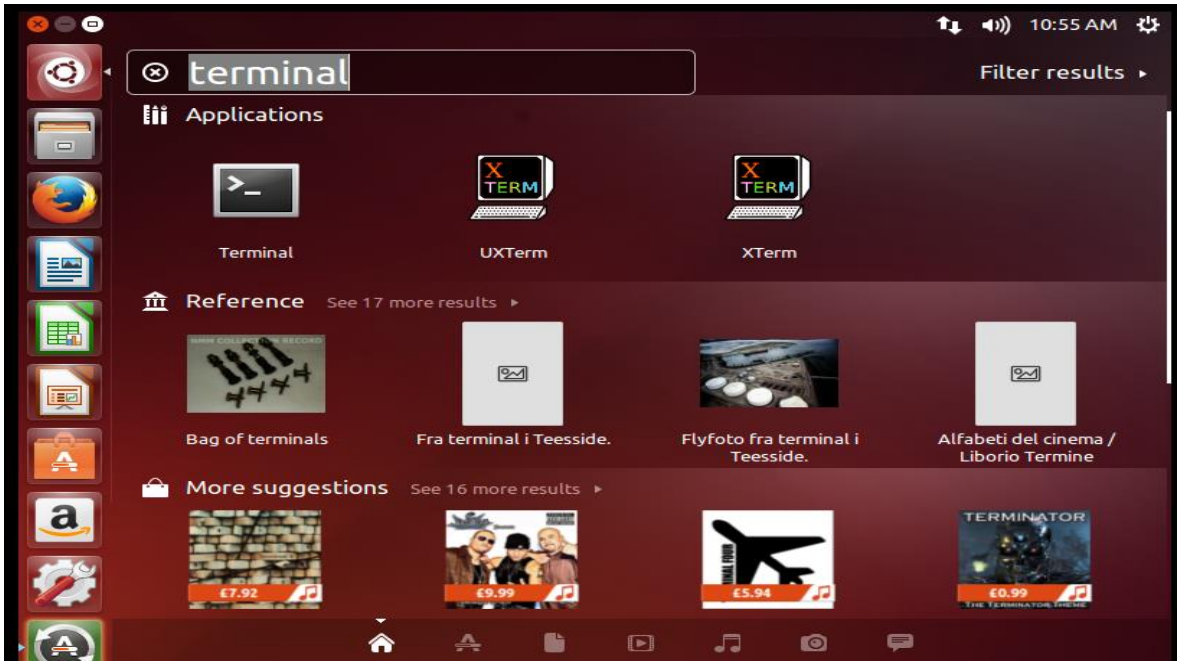
g) Keep the default setting on "**Keyboard layout**" screen, and click "**Continue**".

h) Input your information on the "**Who are you?**" screen, make sure "**Require password to login**" is selected", and then click "**Continue**"

i) Wait for installation to finish, and click "**Restart Now**" (If your virtual machine freezes or hangs for more than a minute press "**Enter**" on your keyboard to restart the virtual machine)

j) Login with the user and password you input in "**3 h)**"

k) Open a terminal window by typing "**terminal**" :



l) Set root user password with the command in terminal windows:

```
sudo passwd root
```

4. Instal**l vim** (the Linux editor to be used in future labs) with the following command:

```
sudo apt-get install vim
```

5. Install **Vmware Tools**:

1) `sudo umount /dev/sr0`

2) Click **VM → Install Vmware Tools,**

3) `tar xzvf /media/user/"VMware Tools"/VMwareTools-9.6.2-1688356.tar.gz -C ~/`
(All in one command line, replace "user" with your actual username)

4) `cd vmware-tools-distrib`

5) `sudo ./vmware-install.pl –d`

6. **Create a full clone of your virtual machine** in case you really mess things up:

a. Shutdown the virtual machine with the command in terminal:

```
sudo shutdown –h now
```

b. Select **`VM →Manage →Clone`** from the menu (make sure your client OS is powered off). After going through the wizard, the **Clone Type** dialog window comes up, select **Create a Full Clone**.

You are now ready to have your work checked by the professor.