

# LINUX EXERCISE 1: PREPARE A LINUX VIRTUAL MACHINE

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This exercise will prepare you a Linux virtual machine to use in our future class sessions. After the exercise, you should have a virtual machine you can take it with you, either in your laptop, or stored in an external hard drive or USB flash drive (8GB or above).

## INSTRUCTIONS

1. Virtual Machine Installation - you may skip this step in J-260 as VMware player 3 is installed already. You may choose:

- VMware Player 3: [http://downloads.vmware.com/d/info/desktop\\_downloads/vmware\\_player/3\\_0](http://downloads.vmware.com/d/info/desktop_downloads/vmware_player/3_0)
- VMware Player 4: [http://downloads.vmware.com/d/info/desktop\\_end\\_user\\_computing/vmware\\_player/4\\_0](http://downloads.vmware.com/d/info/desktop_end_user_computing/vmware_player/4_0)
- Note that virtual machines created in version 4 cannot be used in version 3.
- For Mac users: Use VMware Fusion or Oracle VirtualBox - <http://www.virtualbox.org/wiki/Downloads>

2. Download Ubuntu Linux 11 from <http://releases.ubuntu.com/11.04/> (version 11.04 desktop 32 bit). Or use the direct link:

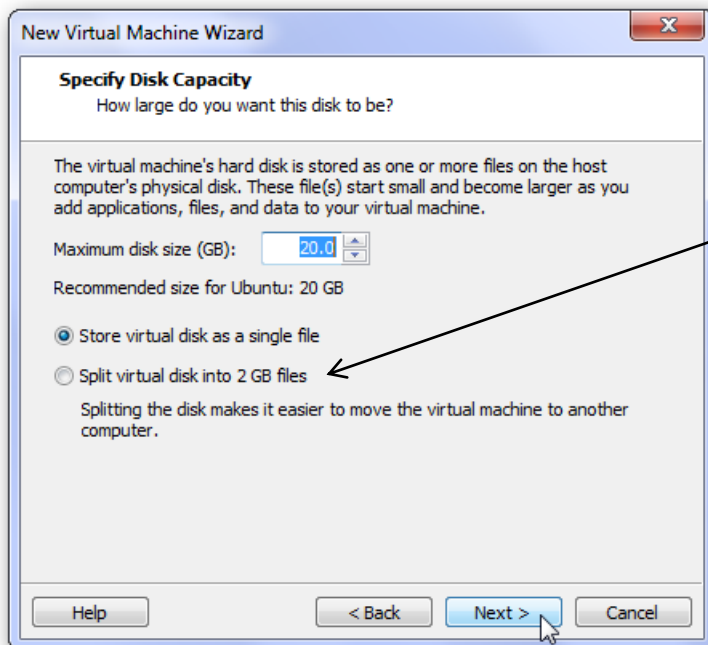
<http://releases.ubuntu.com/11.04/ubuntu-11.04-desktop-i386.iso>

The downloaded file is an ISO CD image file. Save the file in the D: drive, or in your own storage device.

3. Install and run Ubuntu Linux 11 in a Virtual Machine

Follow the steps from <http://www.howtogeek.com/howto/11287/how-to-run-ubuntu-in-windows-7-with-vmware-player/> with the following **requirement**:

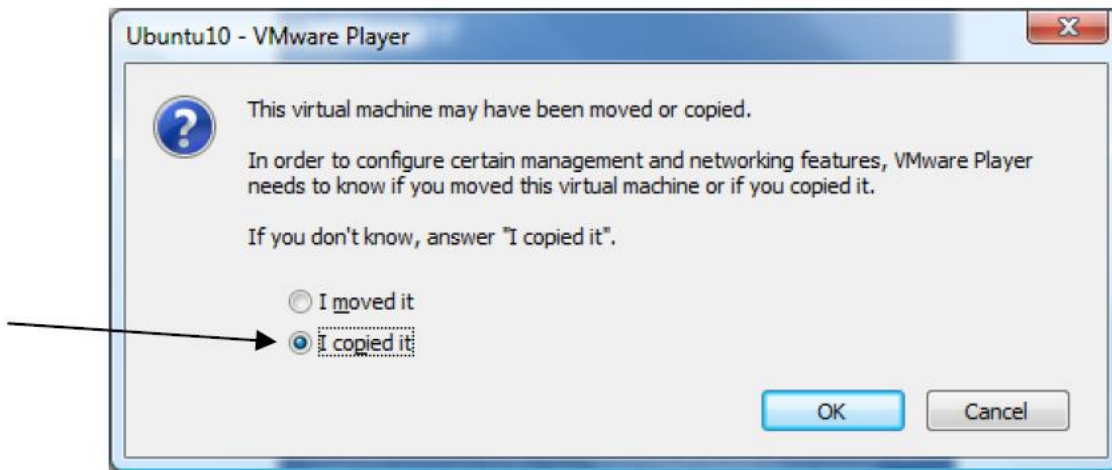
- When being asked for a username: please use your real name as “Full Name” and your SPSU email id as the “User Name”. The name will be displayed in screenshots if required in future assignments.



Choose “Split” if you are using a USB drive or an FAT32 partition to store/move your virtual machine.

#### 4. Copy/move virtual machines and take it with you

- Make a backup copy of your virtual machine once you have successfully installed Linux. So you can always have a clean installation.
- If you do not bring your laptop to the class every time, then you should prepare a USB drive (8GB or more) or an external hard drive, and store the virtual machine on it.
- You can copy or move the complete virtual machine folder (remember where you saved it) to any computer that has VMWare player 3. Use the "Open a Virtual Machine" command in VMWare Player to import a copied/moved VM, and make a choice as indicated below.



#### P.S.

You can install as many virtual machines as you want to explore different Linux distributions and different installation options.

#### 5. Basic VMWare Player use

- There are two major files associated with a VMWare virtual machine: .vmx is the configuration file and .vmdk is the virtual disk file.
- Remember to install VMWare tools for best interactions between the host OS and the guest OS, such as automatic mouse capture and drag and drop file transfer.
- Share files with host in VMware
- Refer to the "Getting Started" guide and other manuals here [http://www.vmware.com/support/pubs/player\\_pubs.html](http://www.vmware.com/support/pubs/player_pubs.html)

#### REFERENCES

- Installation guide
  - <http://www.howtogeek.com/howto/11287/how-to-run-ubuntu-in-windows-7-with-vmware-player/>
- Documentation
  - [http://www.vmware.com/support/pubs/player\\_pubs.html](http://www.vmware.com/support/pubs/player_pubs.html)