IYAS Virtual Machine - Initial setup

The compressed VM file (~6Gb .ova file) will deflate in a ~13Gb virtual disk on your system. The virtual hard drive is dynamic and can expand to a maximum of 30 Gb (i.e. The IYAS tutorials should not increase the image size above ~15 Gb but a maximum of 30 Gb has been set on the machine in case of heavy data reduction).
So, please, anticipate the need for disk space on your machine.

0) VM installation

1- first, install VirtualBox from www.virtualbox.org compatible with your system (the last version would be good).
2- go to « File » Menu and select « **Import Appliance** »
3- select the « **IYAS.ova** » file, and follow instructions
4- the Virtual Machine (VM) is called the « **Guest** » and is installed on your « **Host** » computer (your physical computer).
5- Optional: you can review the properties of the machine before launching it

O1: Select your machine in the list of VM and click the Settings button.
O2: from now on you can modify the amount of RAM allocated to your system, Video Memory, Number of CPU... Please modify this according to the VirtualMachine documentation. (Be aware that some CPU parameters may lead to system crashes).
Note: To increase the backward compatibility with older machine, disabling the USB2.0 support, may settle some problem for VirtualBox versions compatible with Mac OS <10.8.

The root credentials of the VM are:

Login: student
Password: iyas

(beware of qwerty/azerty layout when choosing your keyboard layout).

Data/Docs/Tools for the IYAS Hands-On are located in ~/IYAS, the tutor will point you to the correct sub-directory.

Please report to the IYAS Hands-On webpage for the latest updates on the content of the Hands-On.

1) VM Additions: Shared ClipBoard & Screen/Mouse compatibility

To enable wider compatibility between **Guest** and **Host**, the VirtualBox Additions must be installed.
1- From the « **Devices** » menu, select « **Install Guest Additions CD image...** »
2- When prompt, press « **ok** » to open the content of the CD
3- Double click on the file « **autorun.sh** », select « **Execute** » when prompted, type « iyas » as a password.
4- let the installation proceed and when prompt, press **Enter** on your keyboard.
5-From now on you can activate the features that are in the menu « **Devices** », especially, enable « **Bidirectional** » under « **Shared Clipboard** » and under « **Drag and Drop** ».

HOW-TOs

- How to create a shared folder between the Host and the Guest ?

      1- Create a new folder (e.g. « **mysharedfolder** ») on your Host system.
      2- On the VM window, there is a set of icons at the bottom. Click on the icon in shape of a folder and click « **Shared Folder Settings...** »
      3- hit the icon with a green **« + »** sign on the right.
      4- select the « **mysharedfolder** » folder in your system. You can specify a sharing name different from the foldername but let's keep the value « **mysharedfolder** » by default.
      5- check « **Auto-mount** » & « **Make Permanent** » and press « **ok** » twice.
      6- On the Guest system, the procedure depends on your system:
            6 i) Create a new folder anywhere (e.g. ~/sharing)
            6 ii) Open a terminal and type:
« sudo mount -t vboxsf -o uid=1000,gid=1000 mysharedfolder ~/sharing»

(To make it permanent at each run of the VM, please report to http://askubuntu.com/questions/252853/how-to-mount-a-virtualbox-shared-folder-at-startup)

- How to change my keymap to match that of my computer ?

By default, the PC French and PC English keyboard layout are set on the system.
For example, it is possible to use Macbook pro keyboard layout (e.g. http://www.perfectlyrandom.org/2014/03/30/using-a-mac-keyboard-in-lubuntu-13-10/ or http://askubuntu.com/questions/235533/how-to-set-keyboard-layout-for-a-macbook-pro)

- How to use a USB Key/ USB hard-drive in your VM ?

1) Your USB key should be in a appropriate filesystem (usually FAT32, sometimes ntfs).

2) Your USB key should NOT be mounted in your Host system. So, you have to Dismount/ Safe Eject it without removing it physically.

3) On the VM window, there is a set of icons at the bottom. Click on the icon in shape of a USB plug and select your device in the list corresponding to your KEY (usually its brand). If the device is present but in gray, this means that the Host system is using the key. You have to dismount it first.
a1) You can set the VM to « **capture** » automatically you USB key by going in the machine settings -> Ports -> USB.
a2) click on the small USB icon with a green « + » and select your device that should appear in the list.

REMEMBER: if you device is written in gray, this means that the device is not available because it is being used by the Host system. You should Dismount/ Eject the key from your Host without removing physically the key.

You can try to fiddle with the USB2, USB3 support in the VM settings to enhance the transfer speed.
        IN ANY CASE, If you have any problem/bugs/questions/suggestions, please send an email to julien.girard@obspm.fr