

Appendix : Course Virtual Machine (VM) Quick Start Guide

Using a VM enables us to encapsulate the course data and software in such a way that you can still make use of them when you return to your own laboratory.

First download the VM from

<https://drive.google.com/file/d/1a1NE6S5CFjflZEQ8aYaAQRtXODBagSb8/view?usp=sharing>.

Next, you will need to download VirtualBox (<https://www.virtualbox.org/wiki/Downloads>). This software is required to run the VM on your machine, it is free and available for windows, MacOSX and linux,

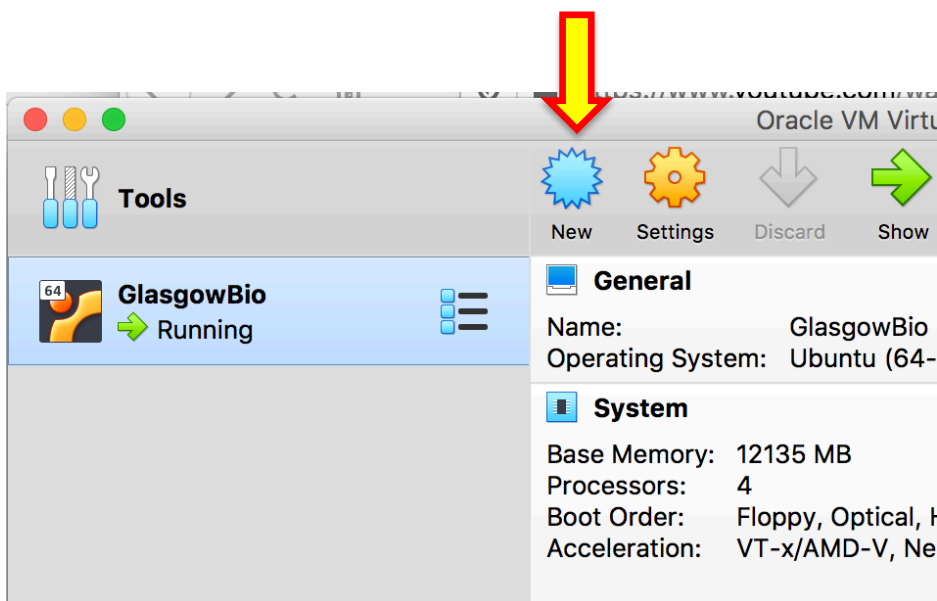
For a detailed description of VirtualBox and the installation you could read hundreds of pages on the on-line manual (<http://www.virtualbox.org/manual/>) but normally just double click on the downloaded program, do next next ok, password ok and it is done. You should see the following symbol somewhere or search for virtualbox.

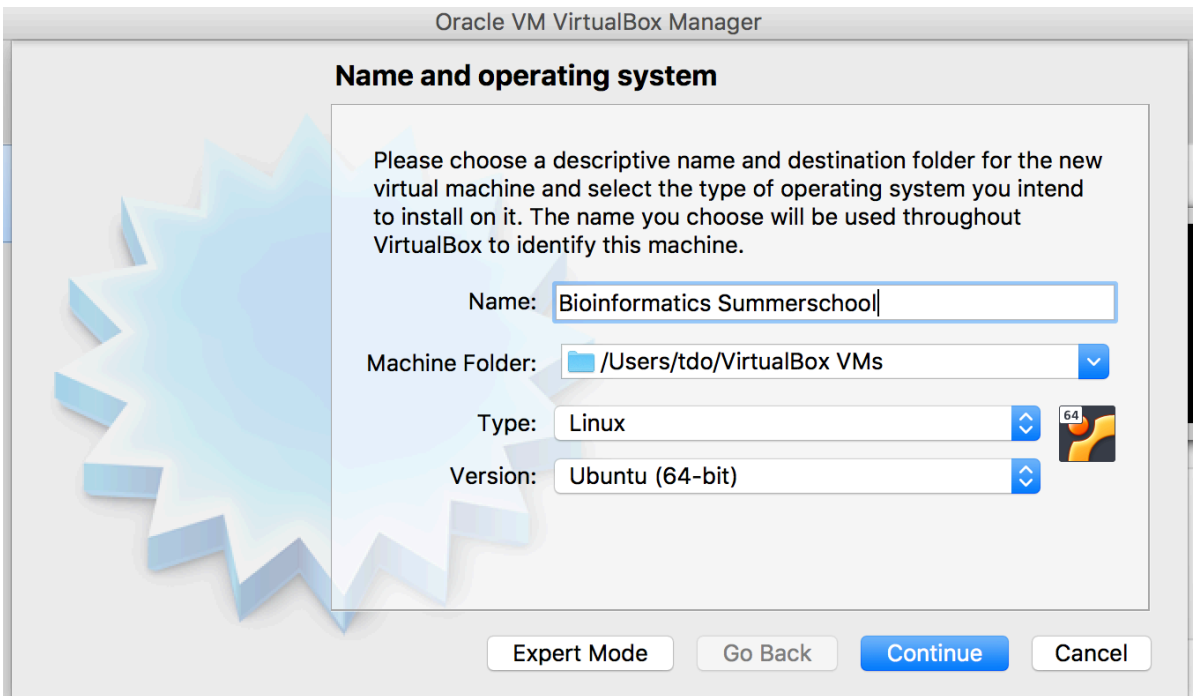


Open Virtual box

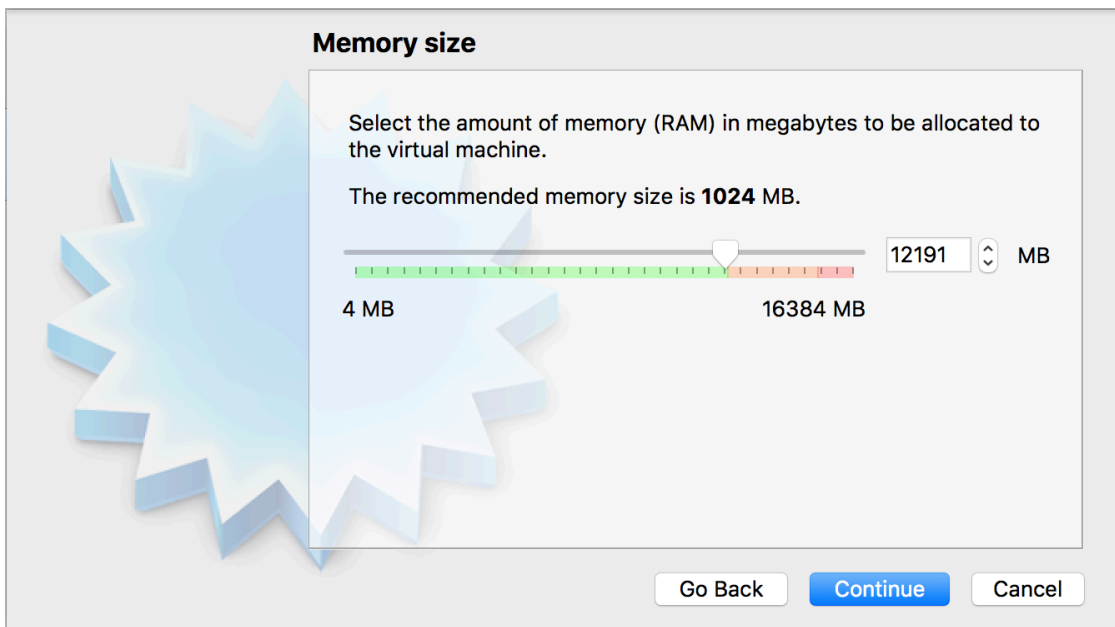
Setting up the VM

Create a new virtual machine by selecting 'New' from the options at the top.





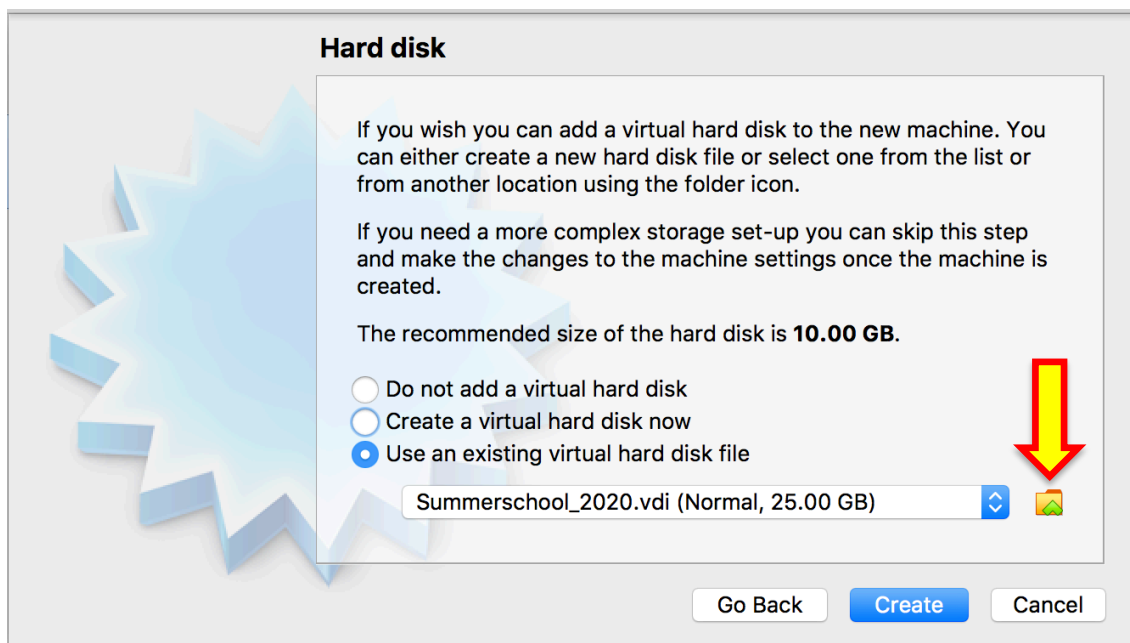
- Give it a nice name, and then select Type: Linux and Version Ubuntu (64-bit), and confirm with pressing continue
- In the next window keep the memory default setting (1024 MB) but you might want to go up to the orange limit. You should be able to give the machine at least 3 GB. The more the better ☺ (But you can still change it easily afterwards).



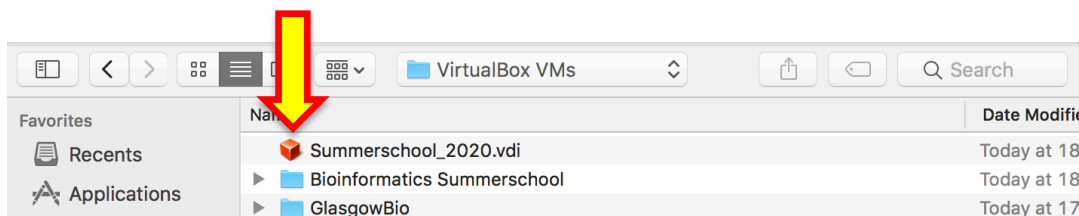
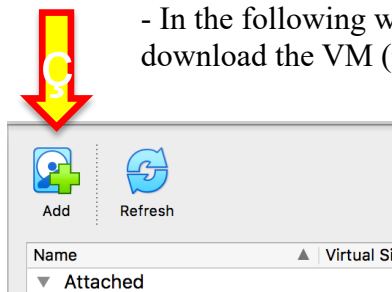
Click 'Continue'.

In the next window select 'Use existing hard disk' and from the folder icon on the right hand side navigate to where you downloaded the VM from the webpage above.

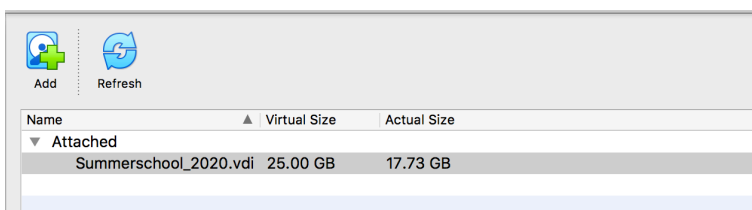




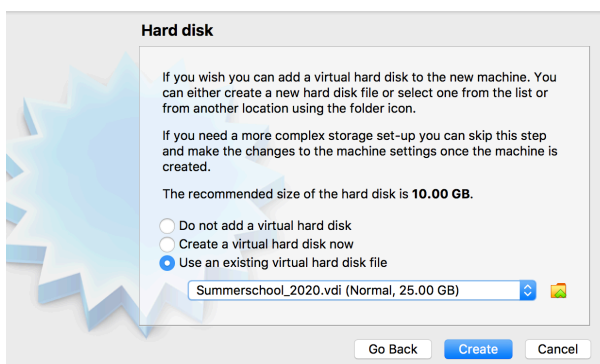
- In the following window top left press add and then navigate to the directory you download the VM (name: Summerschool_2020.vdi) and select it

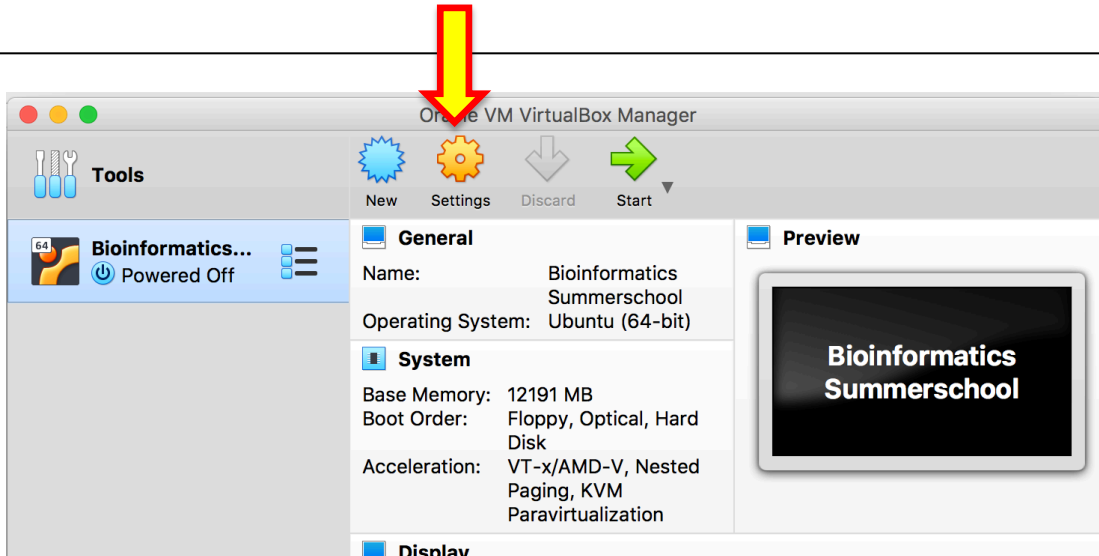


This this window select again the selected file and confirm.



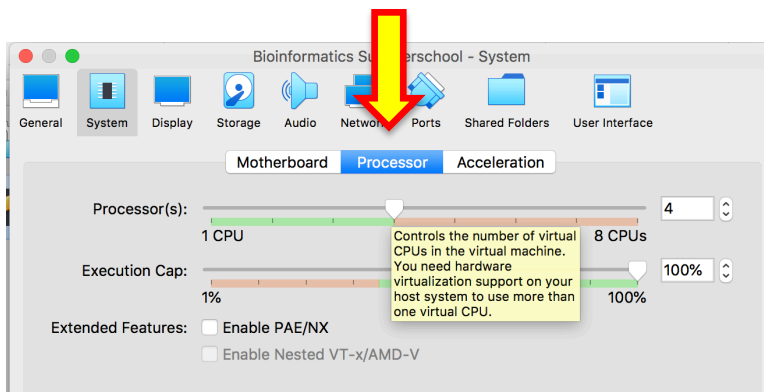
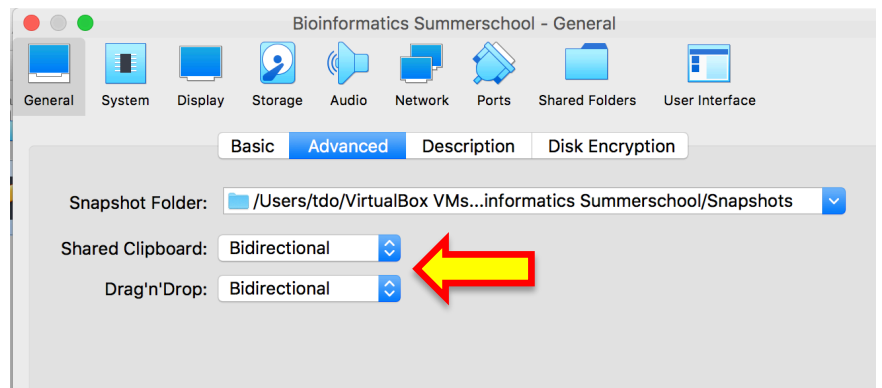
The next window should look like this:
Press create.





Technically, we are done. But it might worth to set some settings!

First, under general & Advanced tab, chose “bidirectional” for the two options “shared Clipboard” and “Drag’n’Drop”. This will allow you cp & paste between the host system (your) and the Linux.

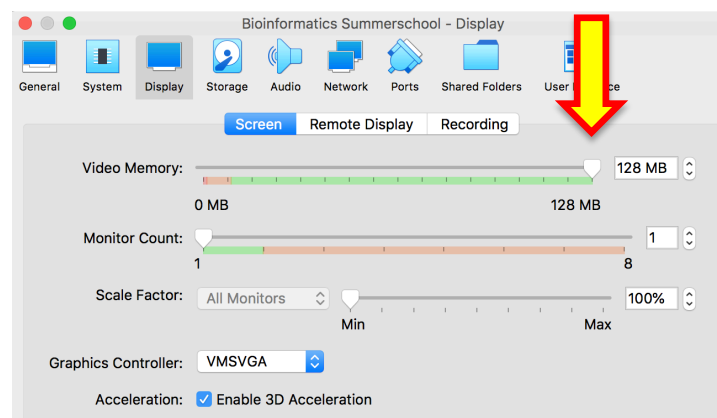


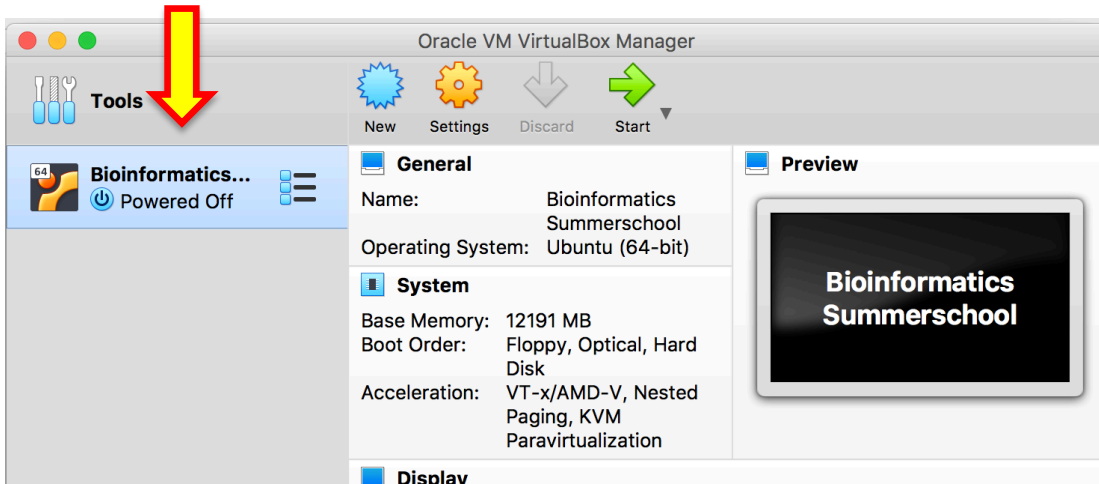
Second, under System & Processor tab, chose half of the available processor. The VM will work faster with more processors and it enable multithreading – more during the mapping exercise!

Third, under Display and Screen, give your video Memory 128 MB. Look that the Graphs controller is set to VMSVGA.

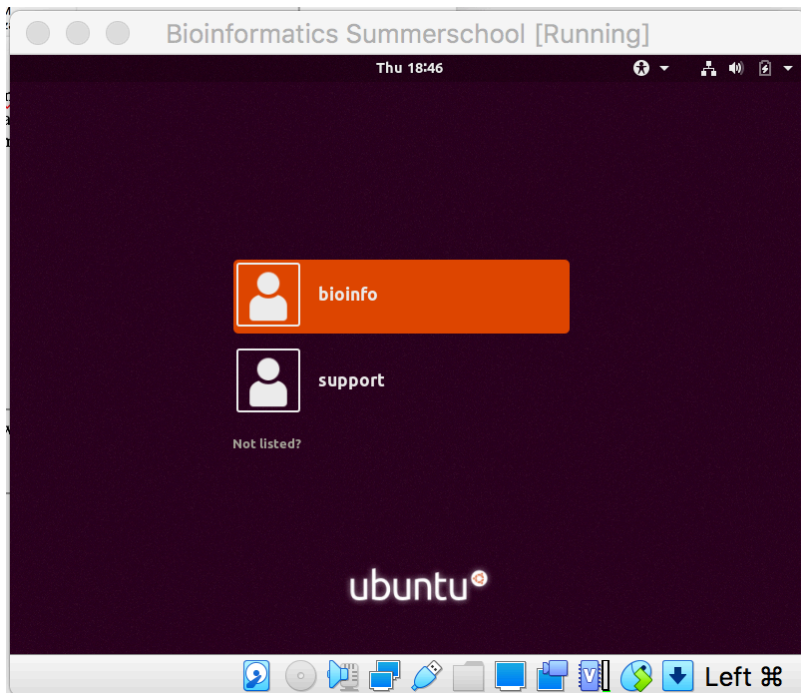
If this is not correctly set your VM might freeze when you resize the window – and we don’t want that!

FINALLY press ok.





Double click on this new “Bioinformatics Summerschool” power button to start the VM. A window wil pop up and it might take a bit. If you VM is on an external drive, the booting (loading of the Linux system) might take a bit longer.



Next select the bioinfo user and type the password Glasgow2020.

I hope you are still with us and haven’t run away!

You should see the screenshot below. I pretty sure you cannot wait for the course to start!

