Day One Virtual Machines and Command Line Nate and Vanessa

MOST bioinformatics software runs on LINUX (as does the internet, NASA, etc.)

In order to use the software we need one of the following:

- 1. a linux machine (e.g. ubuntu).
- 2. a MAC (based on linux).
- 3. a computer running Virtual Box software and a virtual machine.

So...to get everyone on the same page:

step one

INSTALL VIRTUAL BOX (software that matches your machine).

step two

Set the bios in your computer to 'enable virtualization'

step three

download virtual disk image

step four

open virtual box software and install virtual machine



and for those of you who might be nervous, DON'T WORRY....

THIS STUFF WAS NEW FOR ME TOO.

I wasn't a big fan of computers but I managed to figure it out.

I'm sure you will also.

download virtual box



- https://www.virtualbox.org/wiki/Downloads
- select the software that matches your machine (the host)
- download and install
- Let us know if this doesn't work



Download VirtualBox

Screenshots Downloads

Documentation

End-user docs

Technical docs

Contribute Community Here, you will find links to VirtualBox binaries and its source code.

VirtualBox

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

- . VirtualBox platform packages. The binaries are released under the terms of the GPL version 2.
 - VirtualBox 5.0 for Windows hosts ⇒x86/amd64
 - VirtualBox 5.0 for OS X hosts → amd64 · VirtualBox 5.0 for Linux hosts
 - VirtualBox 5.0 for Solaris hosts ⇒ amd64

Support for USB 2.0 devices, VirtualBox RDP and PXE boot for Intel cards, See this chapter from the User Manual for an introduction to this Extension Pack, The Extension Pack binaries are released under the VirtualBox Personal Use and Evaluation

Please install the extension pack with the same version as your installed version of VirtualBox!

If you are using VirtualBox 4.3.30, please download the extension pack - here. If you are using VirtualBox 4.2.32, please download the extension pack - here.

If you are using VirtualBox 4.1.40, please download the extension pack where.

If you are using VirtualBox 4.0.32, please download the extension pack - here.

• VirtualBox 5.0 Software Developer Kit (SDK) → All platforms

See the changelog for what has changed.

You might want to compare the

- . SHA256 checksums or the MD5 checksums

to verify the integrity of downloaded packages. The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!

Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well

enable virtualization

- 2.
- google your computer model and "command to enter bios"
- enter bios and enable virtualization
- every computer is different so feel free to ask for help...

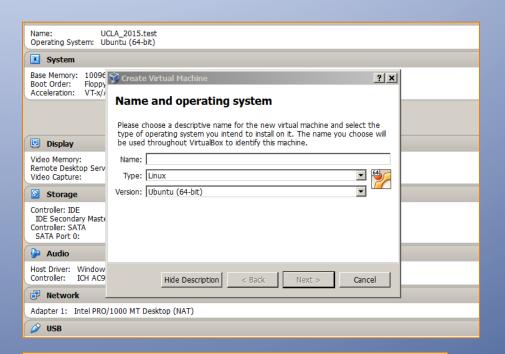
CMOS Setup Utility - Copyright (C) 1984-2009 Award Advanced BIOS Features		
Internal Graphics Mode × UMA Frame Buffer Size		
The second secon	Disabled	Men
Init Display First	[PEG]	Ha
Virtualization	[Enabled]	Vi:
AMD K8 Cool&Quiet control Hard Disk Boot Priority	[Press Enter]	im
First Boot Device	[Hard Disk]	sy
Second Boot Device	[USB-HDD] [CDROM]	Vi So:
Third Boot Device Password Check	[Setup]	30
HDD S.M.A.R.T. Capability		Vi
Away Mode	[Disabled]	a l
Backup BIOS Image to HDD	[Enabled]	on e i

3. install UCLA_2015.vdi from thumbdrive

4.1 open virtual box software click "NEW" and enter name enter linux enter Ubuntu (64-bit)

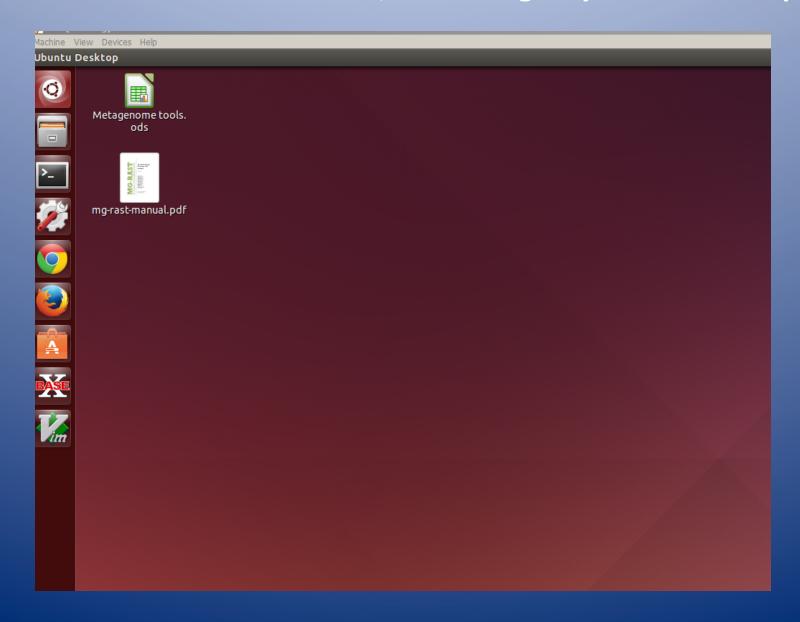
4.2 enter memory= your machine total minus4GB

4.3 attach to your VDI image





turn on the new machine, it should give you this desktop



One more thing to do...

enable clipboard function shared across host and virtual machine

- go to 'devices' tab in virtual box while virtual machine is running.
- click 'insert guest additions cd image'
- run it (don't worry about warnings)
- go back to 'devices' and click 'bidirectional' on 'clipboard'
- after it completes, log out of virtual machine and restart virtual machine.

Vanessa may help you test this tool. (e.g. try writing text in notepad++ and then cutting and pasting it into the terminal window....)