3.) Setup a linux virtual machine (lesson 6)

* Setup linux ubuntu VM.
  1.) Install virtual Box Hypervisor
  2.) Setup linux Ubuntu virtual machine.

Download virtualBox
  1.) Download (106mb)
  2.) next → 3.) Install

Oracle vm virtual Box manager

* Prepare vm environment.
  ① click new → ② Name → linux-ubuntu
      Type → Linux   Version: Ubuntu-64.
  ③. memory size to vm → 2048 mb.
      (ram)

  ④ Hard disk → create a virtual hard
              disk now.
          → VDI (virtualBox Disk Image)
          ↘ if using vm only with
             virtual Box
  ⑤. Storage on physical hard disk.
          ● Dynamically allocated
          file location → Create
          and size

  ⑥ now prepare an environment
      for linux virtual image
      linux-ubuntu-container. → linux as
                                on it.

    Install linux os.
    ①. ubuntu downloads. ② click ubuntu
        (iso extension)   Desktop.
    ② click↓ Download (LTS-Ubuntu) latest
        This linux-ubuntu installation file

to install linux on virtual machine or
on physical laptop (without
hypervisor)

Virtual Box GUI → Start → normal start
choose a virtual Disk file
⊡ → add → ubuntu-22.04.1-desktop
↓ -amd 64

→ Start

install ubuntu → leave as it is → Installation
type (erase disk and install ubuntu)
Virtual Disk - not disk
host

When you install it without
hypervisor then you need to be careful
→ Continue

Select location (Pune) → Your name :
computer name : image.
username :
password :
● login automatically

Ubuntu Desktop → skip → next → Done.

command line →

vm settings.
1.) Save the machine state.
2.) Power off the machine.
3.) Copy and paste betn host os and vm.
Settings → advanced → shared clipboard
(Bidirectional)

Drag and Drop (Bidirectional)
Download virtual Box extension pack.
and install.
4.) Open ubuntu. → Devices → Insert guest
addition CD image.
Then click on DISK and unmount.
(now you can also do full screen)

copy paste from one os to
different os. (text, file)

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Virtual machine has its own network.
If someone hacks your vm, no problem to
home network as both network are different
(security purpose good)
you can add same network to
both

(network tab)
`Shaning things is not good for isolation`
`you may comprimise security.`