Computer Operating Systems

Practice Session 1: Linux Installation

T. Tolga Sarı (sarita@itu.edu.tr) Sultan Çoğay (cogay@itu.edu.tr) Doğukan Arslan (arslan.dogukan@itu.edu.tr)

March 1, 2022



Today

Operating Systems, PS 1

Different Ways of Installing Linux Creating a Virtual Machine Using VirtualBox



1- Installing on hard drive

Linux distribution is installed on PC's hard disk.

Provides high performance usage.

- ▶ Installation alongside with another OS (such as Windows + Ubuntu).
 - https://help.ubuntu.com/community/WindowsDualBoot



2- Installing on a USB flash drive

- Linux distribution is installed on a USB flash drive using a tool such as Universal USB installer or RUFUS
 - https://www.pendrivelinux.com/universal-usb-installer-easy-as-1-2-3
 - https://www.webtekno.com/rufus-windows-ubuntu-usb-surucusu-h79080.html



3- Installing on a virtual machine

Linux distribution is installed on a virtual machine (using a virtualization tool such as VirtualBox).



Oracle VM VirtualBox

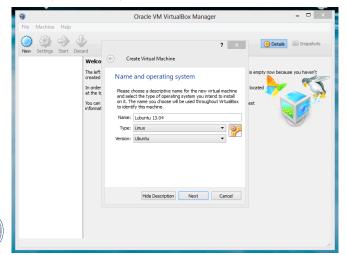
- ▶ Download VirtualBox from https://www.virtualbox.org/wiki/Downloads
 - Select appropriate version for the host operating system you use.

Finish the installation of VirtualBox

- Download .iso file for the Linux distribution to be installed.
 - Lubuntu 16.04.1: http://cdimage.ubuntu.com/lubuntu/releases/16.04/release

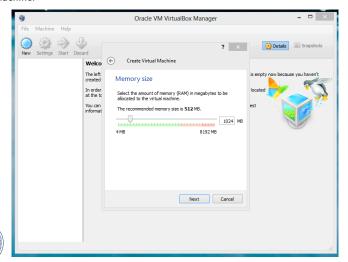


- ▶ Open VirtualBox and select "New" from the menu above.
- ▶ The type must be set as "Linux" and the appropriate Linux version must be determined (e.g., "Ubuntu").



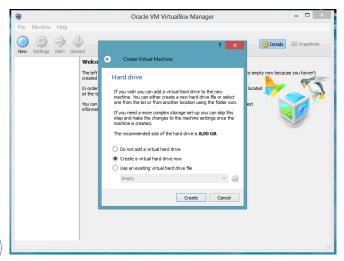


Determine the amount of maximum memory (RAM) available for the virtual machine.



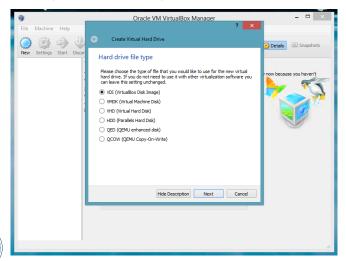


▶ Select "Create a virtual hard drive for the machine.", and press "Create".



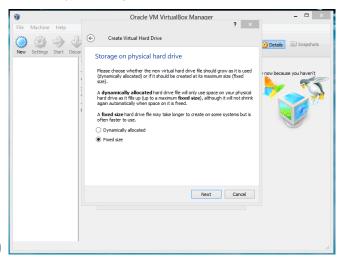


Select "VDI (VirtualBox Disk Image)" from the list of options.





Determine the type of storage as fixed size.



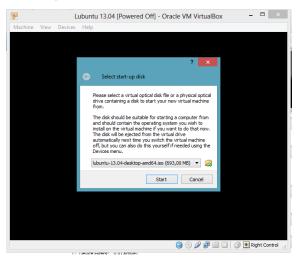


- Virtual machine is successfully installed.
- Press "Start" from the menu above.





Select the .iso file you dowloaded before.





- Set the language (F2).
- Set the keymap (F3).
- Select "Install Lubuntu" for starting installation.
- ▶ The rest of the installation is straightforward.



