

Computer Operating Systems, Practice Session 1

Linux Installation

Mustafa Ersen (ersenm@itu.edu.tr)

February 10, 2016

Today

Computer Operating Systems, PS 1

Different ways of using Linux

Creating a virtual machine using VirtualBox

Installing on hard drive

- ▶ Linux distribution is installed on PC's harddisk.
- ▶ High performance usage.
- ▶ Installation alongside with another OS (such as Windows).
 - ▶ <https://help.ubuntu.com/community/WindowsDualBoot>

Installing on a usb flash drive

- ▶ Linux distribution is installed on a usb flash drive using a tool such as Universal USB installer
(<http://www.pendrivelinux.com/universal-usb-installer-easy-as-1-2-3/>)

Installing on a virtual machine

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

Oracle VM VirtualBox

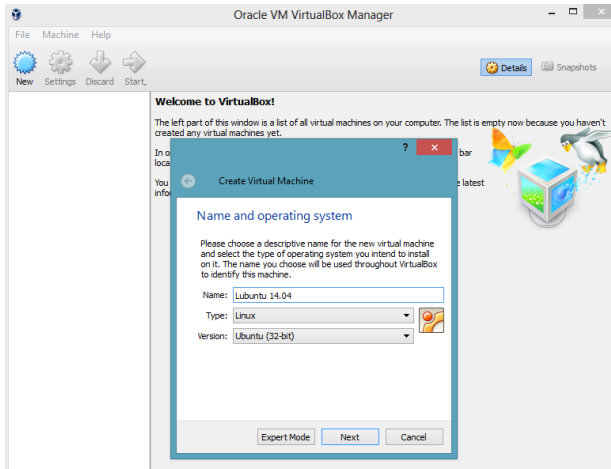
- ▶ Download VirtualBox from <https://www.virtualbox.org/wiki/Downloads>
 - ▶ Select appropriate version for the host operating system you use (e.g., Windows).

- ▶ Install VirtualBox.

- ▶ Download .iso file for the Linux distribution to be installed (**Lubuntu 14.04 32-bit**).

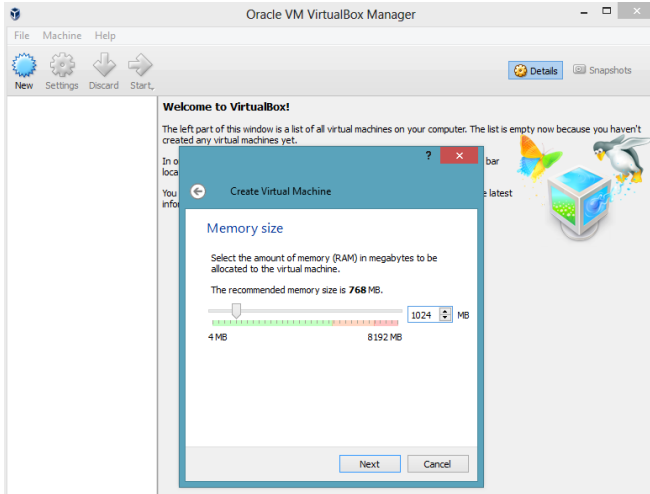
VirtualBox Step 1

- ▶ Open VirtualBox and select "New" from the menu above.
- ▶ The type must be set as "Linux" and the appropriate Linux version must be selected (i.e., Ubuntu 32-bit).



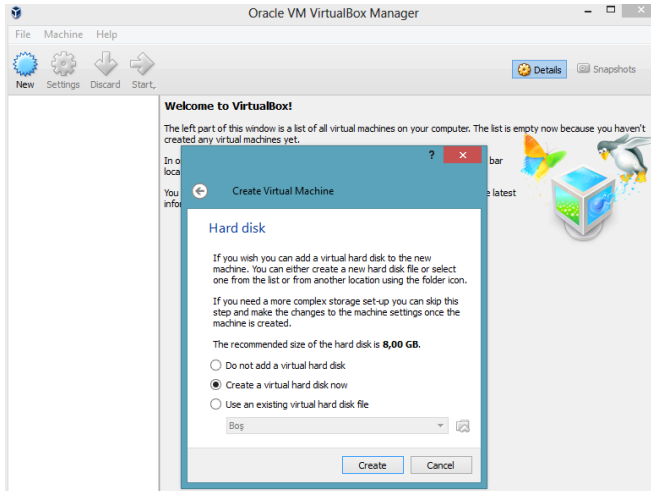
VirtualBox Step 2

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



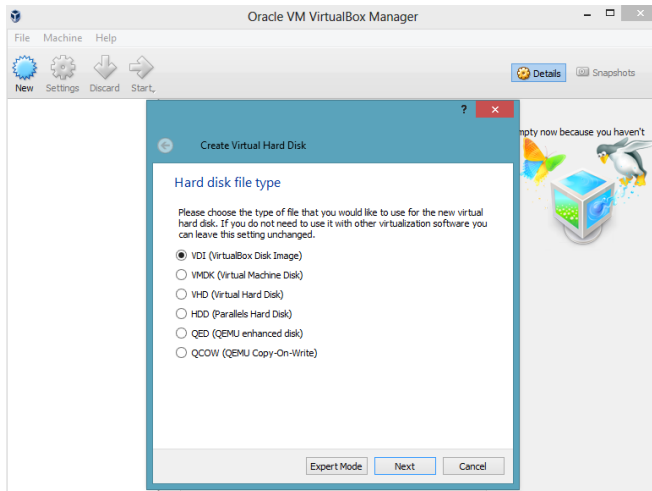
VirtualBox Step 3

- Create a virtual hard drive for the machine.



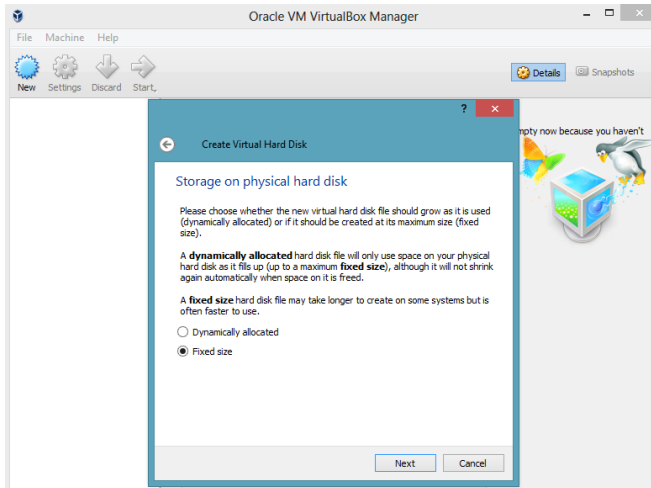
VirtualBox Step 3

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



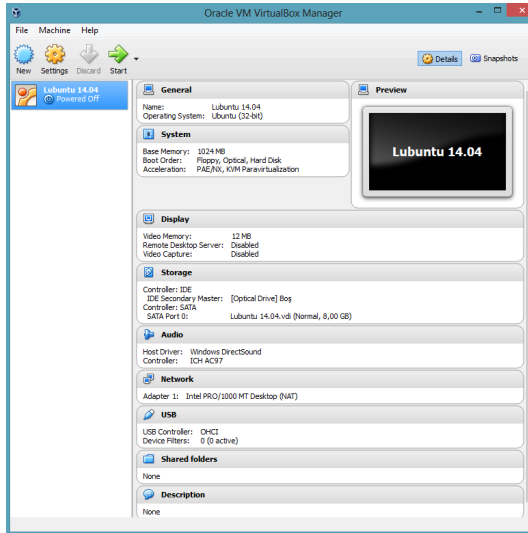
VirtualBox Step 3

- Determine the type of storage (fixed size vs. dynamically allocated).



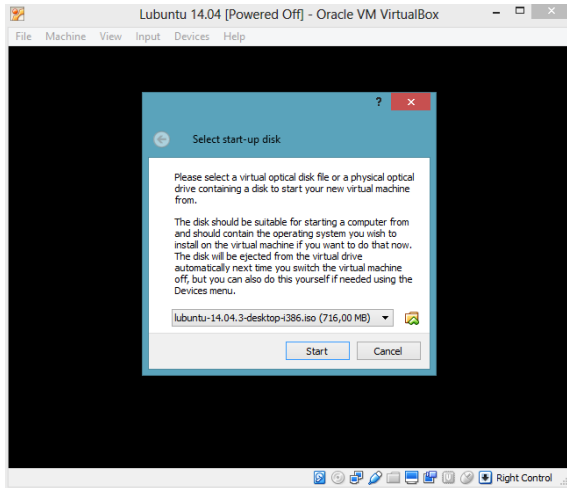
VirtualBox Step 4

- Virtual machine is installed.



VirtualBox Step 5

- ▶ Press "Start" from the menu above.
- ▶ Select the .iso file for the Linux distribution for installation.



VirtualBox Step 6

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

