install ros on ubuntu

- install vmware workstation

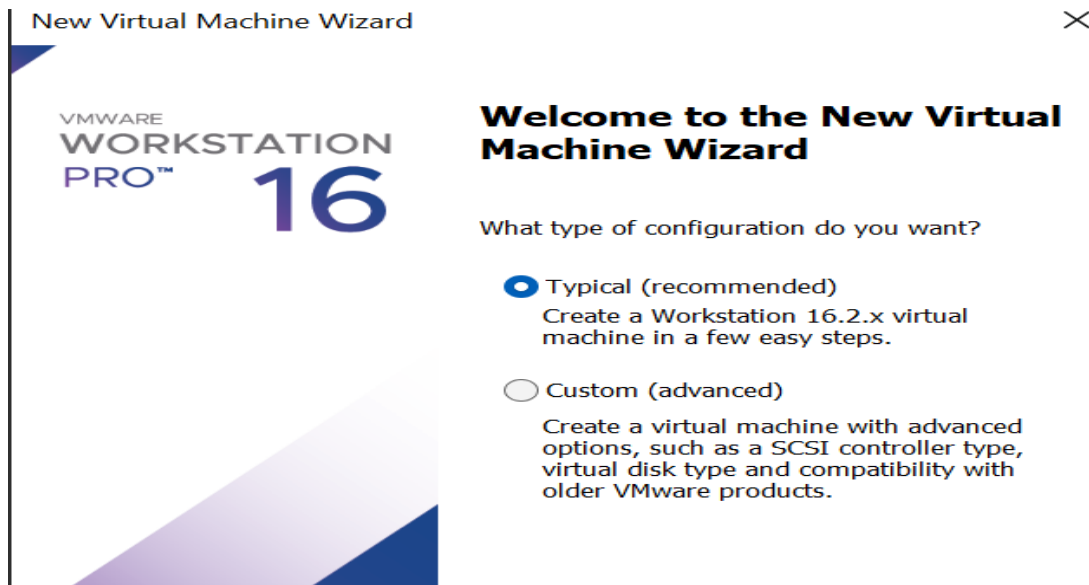 from this link https://www.vmware.com/products/workstation-pro/workstation-pro-evaluation.html
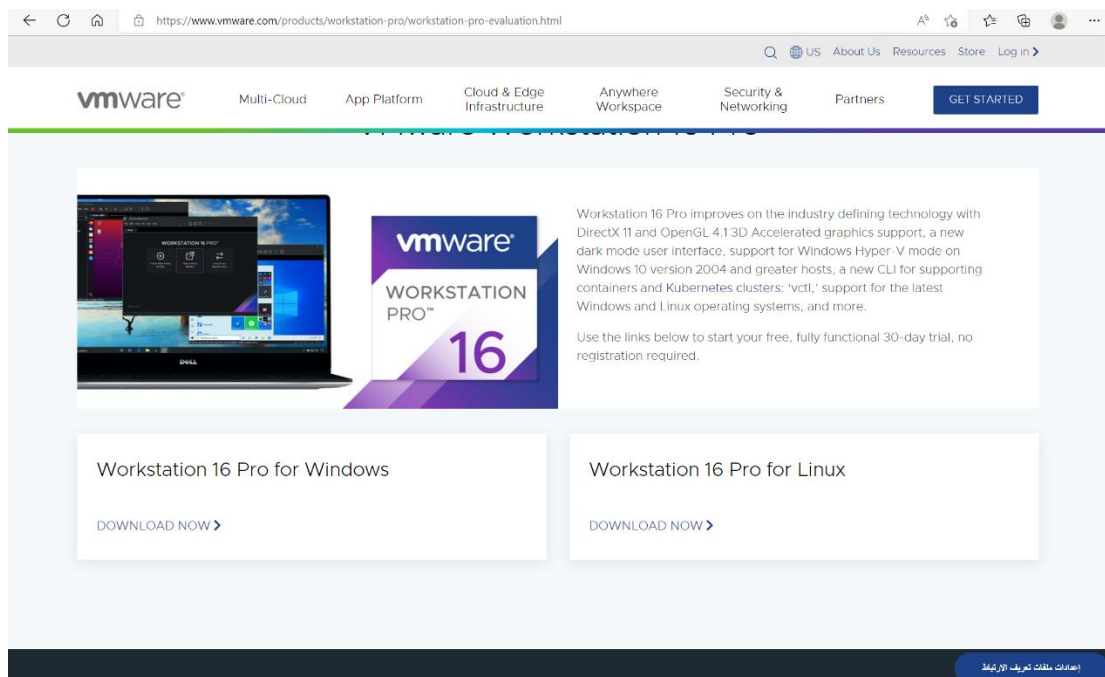
- then we install ubuntu iso

  from this link https://ubuntu.com/download/desktop/thank-you?version=22.04&architecture=amd64
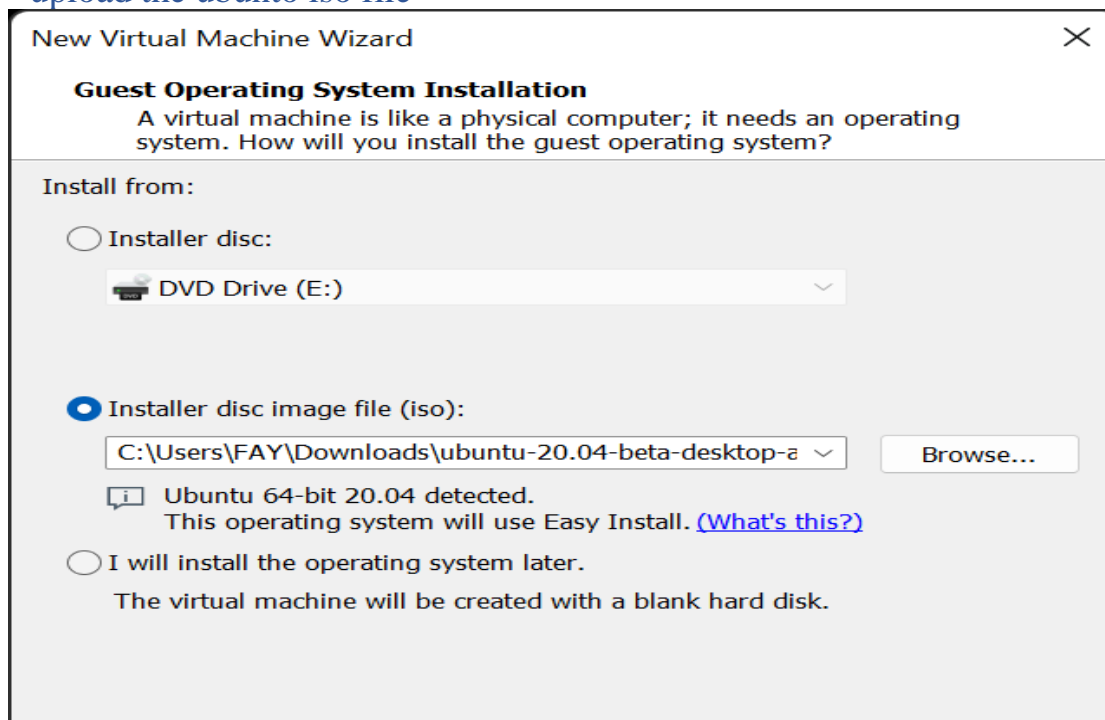
- then we open Vmware ,
  go to `File > New Virtual Machine Wizard`

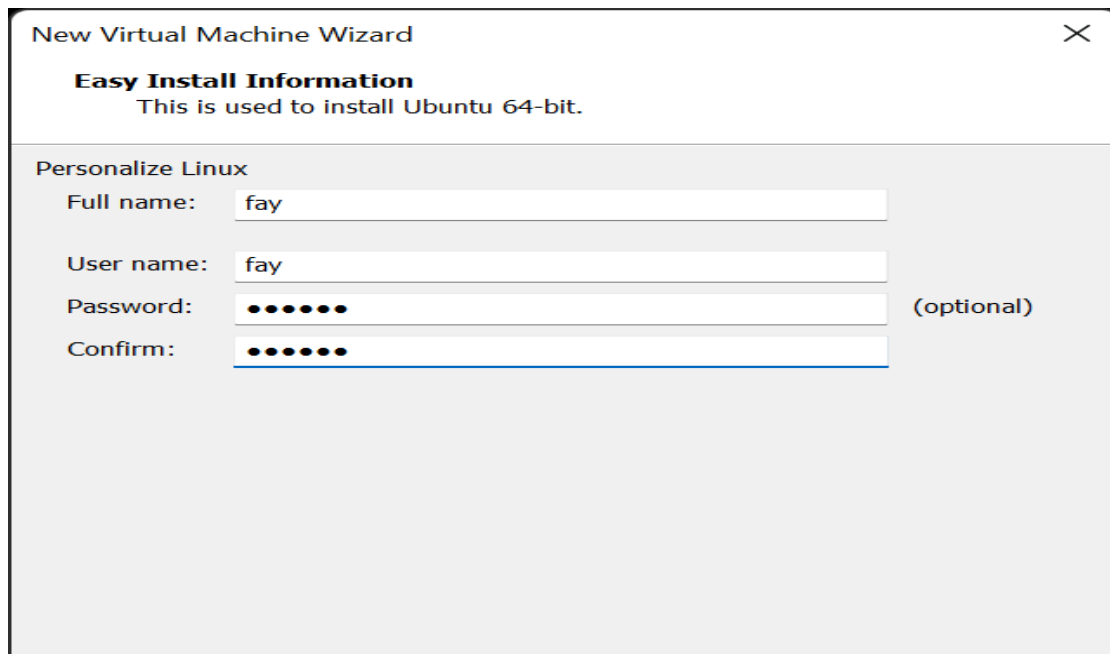- then select Type configuration ;

select installer disc image file (iso)
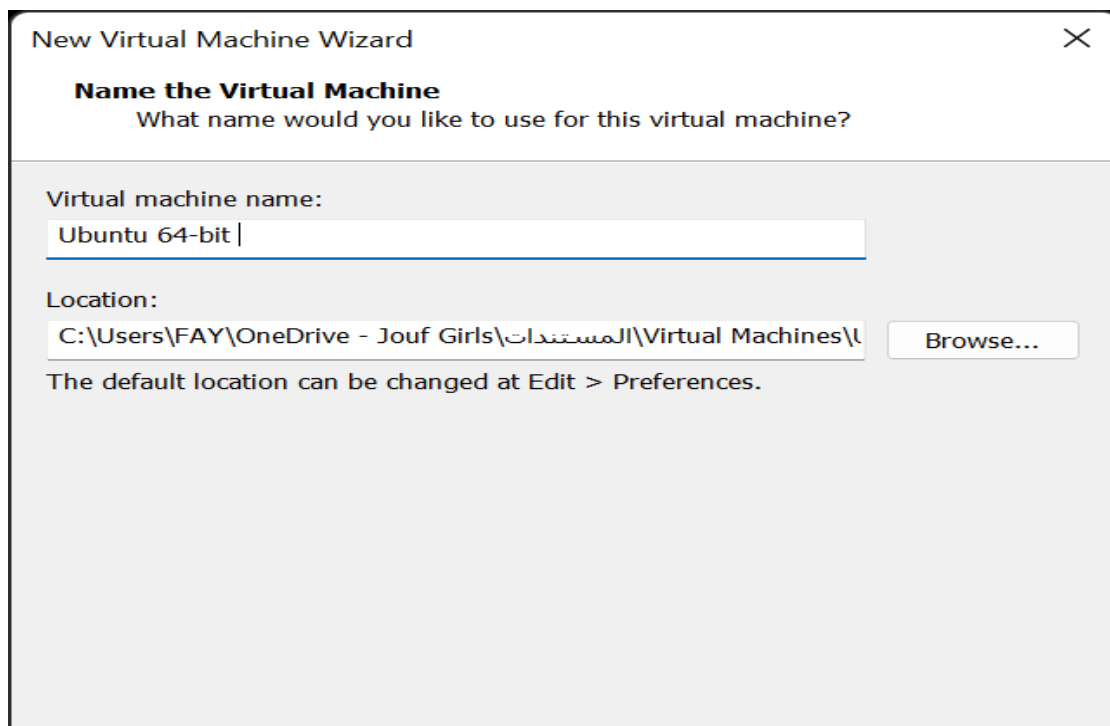
- upload the ubunto iso file
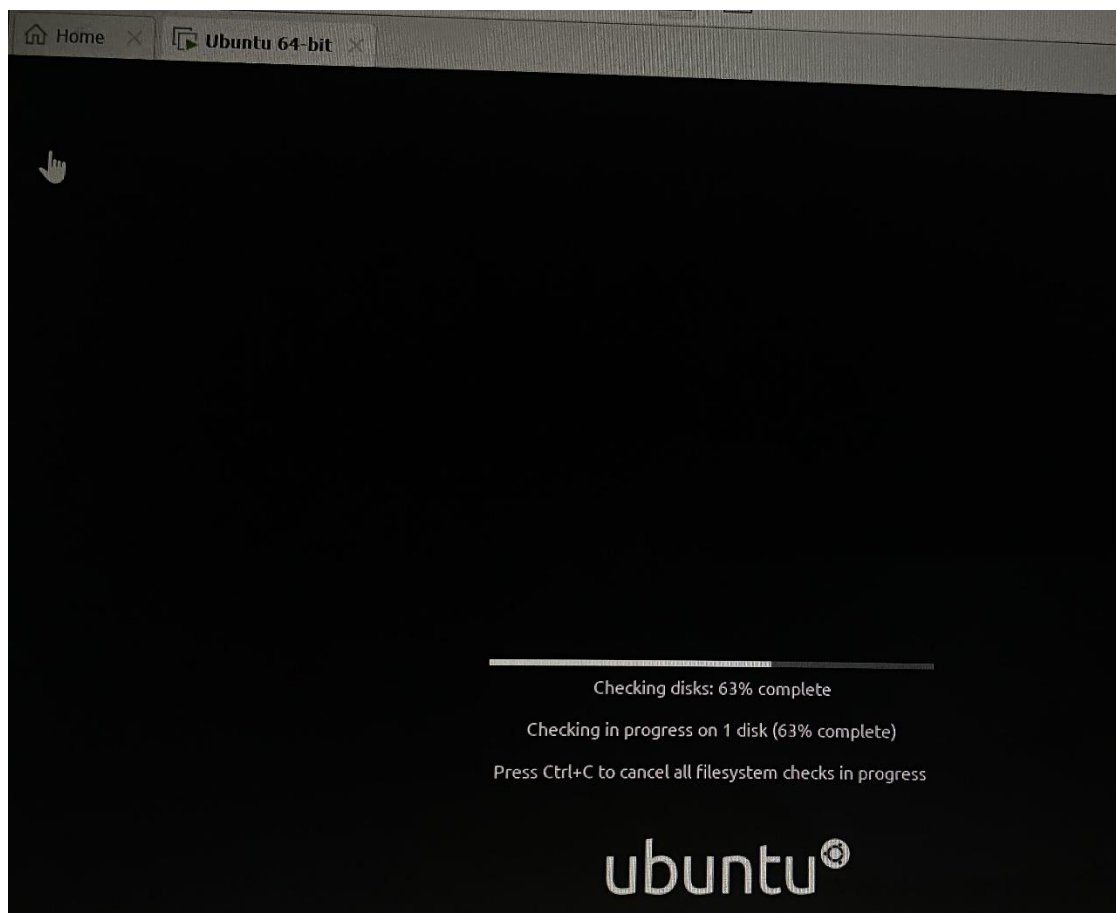
-then write Name and password

New Virtual Machine Wizard   ✕

Easy Install Information
    This is used to install Ubuntu 64-bit.

Personalize Linux

Full name: fay

User name: fay

Password: ●●●●●●   (optional)

Confirm: ●●●●●●

-and write the virtual name and change the file Location if you want

New Virtual Machine Wizard   ✕

Name the Virtual Machine
    What name would you like to use for this virtual machine?

Virtual machine name:

Ubuntu 64-bit |

Location:

C:\Users\FAY\OneDrive - Jouf Girls\المستندات\Virtual Machines\l   Browse...

The default location can be changed at Edit > Preferences.

-then you can change the disk size by defult it will be 20.0 .

New Virtual Machine Wizard   ✕

Specify Disk Capacity
    How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size (GB):   20.0 ⬍

Recommended size for Ubuntu 64-bit: 20 GB

🔘 Store virtual disk as a single file
⚪ Split virtual disk into multiple files
    Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

-

⌂ Home ✕   ▷ Ubuntu 64-bit ✕

Checking disks: 63% complete

Checking in progress on 1 disk (63% complete)

Press Ctrl+C to cancel all filesystem checks in progress

ubuntu®

-after setup Ubuntu , open terminal ,

and for we setup ros (by using this command on terminal)

```
sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'
```

```
sudo apt install curl # if you haven't already installed curl curl -s
https://raw.githubusercontent.com/ros/rosdistro/master/ros.asc | sudo apt-key add -
```

```
sudo apt-get update
```

```
sudo apt-get install ros-kinetic-desktop-full
```

```
echo "source /opt/ros/kinetic/setup.bash" >> ~/.bashrc source ~/.bashrc
```

-At the last we write roscore