### How to install ROS طريقة تثبيت الروز

The steps: الخطوات

1)Download VirtualBox in Windows 10 10 تحميل جهاز افتراضي على ويندوز

2)Install Ubuntu 20.04 LTS on VirtualBox in Windows 10 نثبيت نظام اوبنتو لينكس 20.04 على الجهاز الافتراضي

3)Install ROS Neotic on Ubunto 20.04 تثبیت الروز علی نظام اوبنتو لینکس 20.04

To download them follow the next steps لتحميل البر امح اتبع الخطوات التالية

First, download VirtualBox through the link اولا. قم بتحميل الجهاز الافتراضي باستخدام الرابط التالي

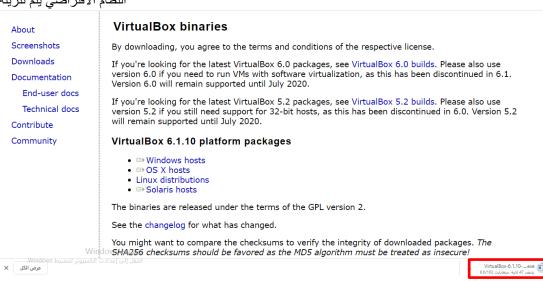
https://www.virtualbox.org/wiki/Downloads





#### The VirtualBox will be downloaded

النظام الافتراضى يتم تنزيله



After downloaded you just need to install it by click on some next buttons بعد تنزيله تحتاج الى تثبيته بواسطة الضغط على بعض من ايقونة التالي

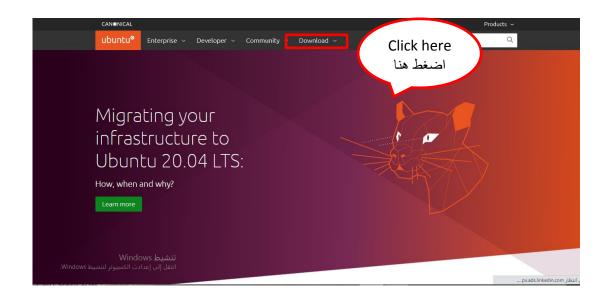
After installed VirtualBox its going to look like this window بعد تثبيت النظام الافتر اضى سنظهر هذه النافذة

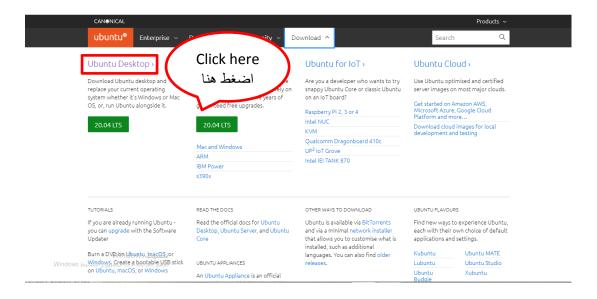


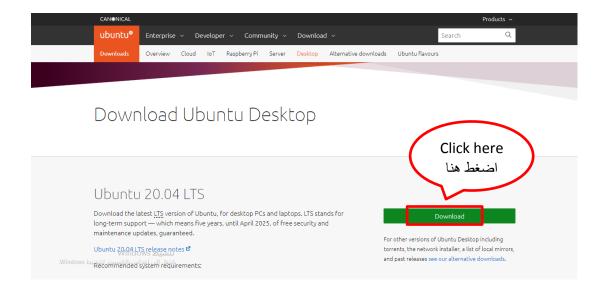
## Secondly, download the ISO file which is required to install Ubuntu on VirtualBox through the link

ثانيا, قم بتحميل ملف ISO لتثبيت نظام اوبنتو لينكس باستخدام الرابط التالي

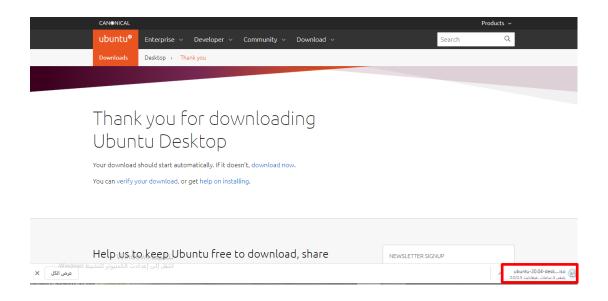
https://ubuntu.com/







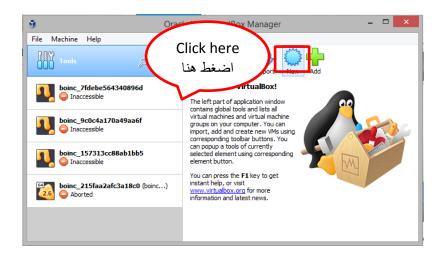
#### The ISO file will be downloaded ملف ISO ملف نتزیله



After downloaded the ISO its going to look like this بعد تحميل ملف ISO سيظهر بهذا الشكل

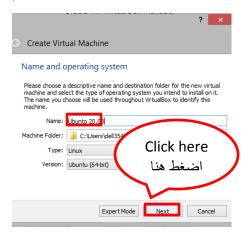


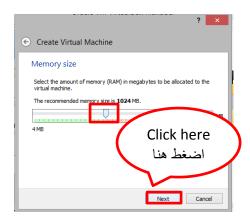
Now we are ready to install Ubunto on our VirtualBox الان, نحن مستعدين لتثبيت نظام اوبنتو لينكس على النظام الافتراضي

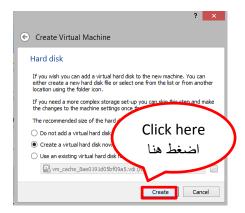


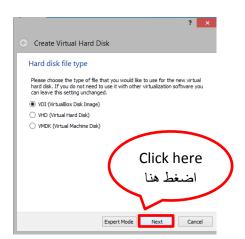
### Name of your new machine

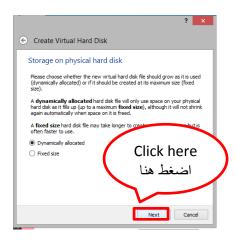
اكتب الاسم

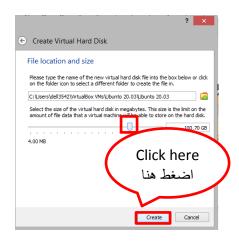






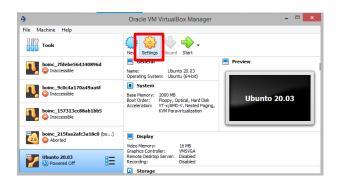


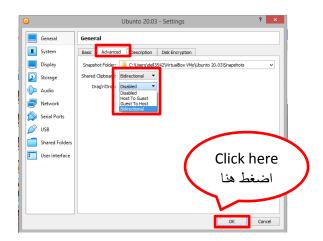


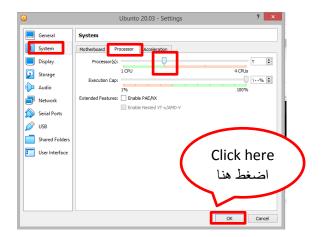




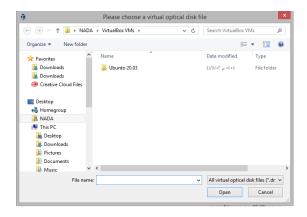




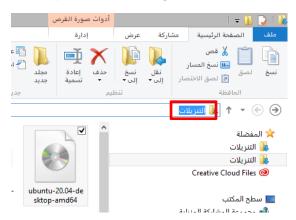






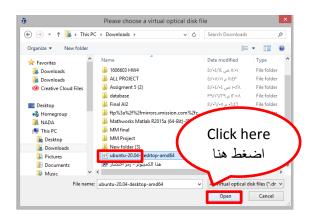


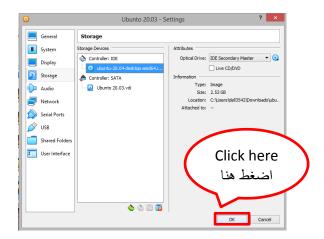
## Copy the location of your Ubuntu انسخ مكان ملف اوبنتو الذي تم انزيله



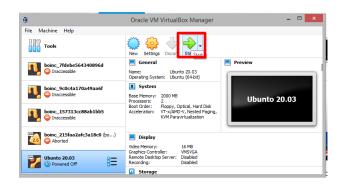
### Paste the location of Ubuntu الصق موقع اوبنتو الذي نسخته

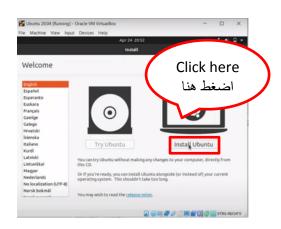


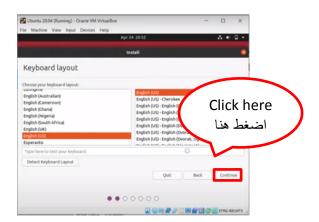


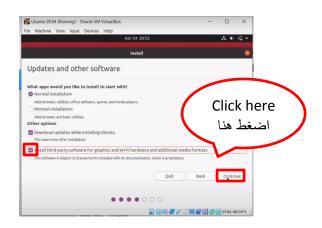


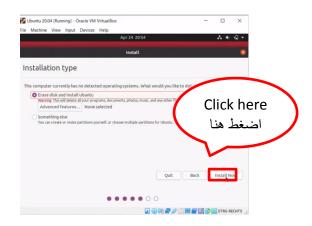


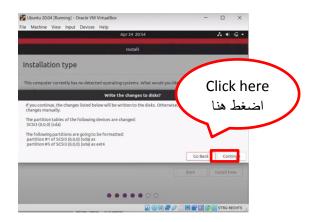


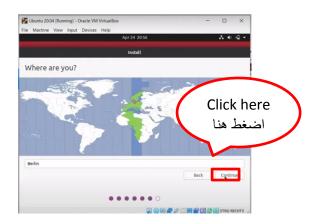




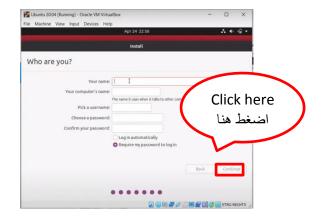


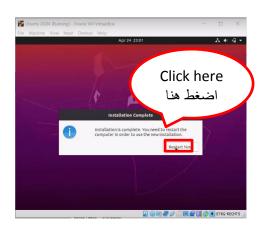






# Fill the following and then click continue $\label{eq:fill_scale} \begin{tabular}{ll} \begin{tabular}{ll}$





Finally, Install ROS Neotic on your Ubunto

#### اخيرا, تثبيت الروز على نظام اوبنتو لينكس

Open the Terminal on your Ubunto Linux desktop افتح التير منال الموجود في سطح المكتب على نظام اوبنتو لينكس



Paste the following comment الصق التعليق التالي

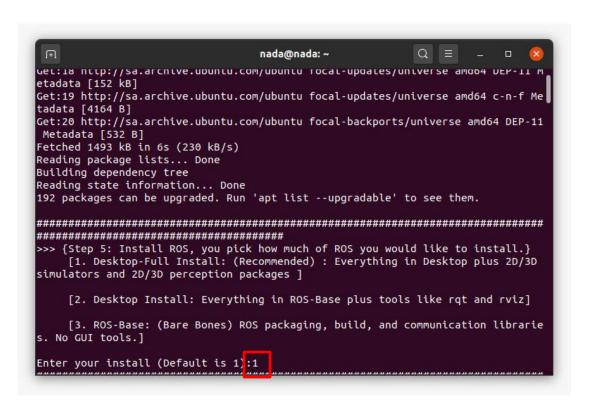
wget -c

 $https://raw.githubusercontent.com/qboticslabs/ros\_install\_noetic/master/ros\_install\_noetic.sh \&\& chmod +x ./ros\_install\_noetic.sh \&\& ./ros\_install\_noetic.sh$ 

Then click Enter ثم اضفط انتر

```
nada@nada: ~
nada@nada:~$ wget -c https://raw.githubusercontent.com/qboticslabs/ros_install_n
oetic/master/ros_install_noetic.sh && chmod +x ./ros_install_noetic.sh && ./ros_
install_noetic.sh
--2020-06-24 14:01:17-- https://raw.githubusercontent.com/qboticslabs/ros_insta
ll_noetic/master/ros_install_noetic.sh
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.112.1
33
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.112.
133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 5518 (5.4K) [text/plain]
Saving to: 'ros_install_noetic.sh'
ros_install_noetic. 100%[==================] 5.39K --.-KB/s
                                                             in 0.009s
2020-06-24 14:01:24 (623 KB/s) - 'ros_install_noetic.sh' saved [5518/5518]
>>> {Starting ROS Noetic Installation}
>>> {Checking your Ubuntu version}
```

```
nada@nada: ~
                                             HTTP request sent, awaiting response... 200 OK
Length: 5518 (5.4K) [text/plain]
Saving to: 'ros_install_noetic.sh'
in 0.009s
2020-06-24 14:01:24 (623 KB/s) - 'ros_install_noetic.sh' saved [5518/5518]
>>> {Starting ROS Noetic Installation}
>>> {Checking your Ubuntu version}
>>> {Your Ubuntu version is: [Ubuntu focal 20.04]}
>>> {Ubuntu Focal 20.04 is fully compatible with Ubuntu Focal 20.04}
>>> {Step 1: Configure your Ubuntu repositories}
[sudo] password for nada:
```



# Enter this command to check your ROS ROS الدخل الأمر التالي للتحقق من تنزيل

