

# Installed ROS into linux operating system

## 1-Download virtual Box by using this link:

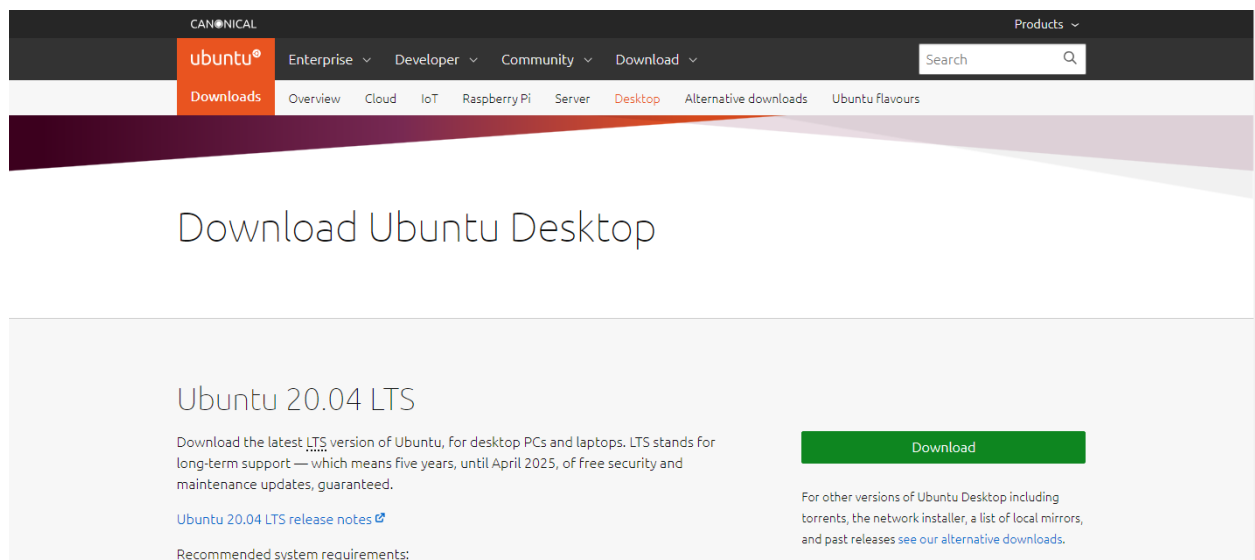
<https://www.virtualbox.org/wiki/Downloads>



The screenshot shows the VirtualBox website's download page. The header features the VirtualBox logo and navigation links like 'About', 'Screenshots', 'Downloads', 'Documentation', 'End-user docs', 'Technical docs', 'Contribute', and 'Community'. The main content area is titled 'Download VirtualBox' and provides information about where to find binaries and source code. It includes sections for 'VirtualBox binaries', 'VirtualBox 6.1.10 platform packages' (listing Windows, OS X, Linux, and Solaris hosts), and 'VirtualBox 6.1.10 Oracle VM VirtualBox Extension Pack'. A 'Show all' button is visible at the bottom right.

## 2-download Ubuntu linux from this link:

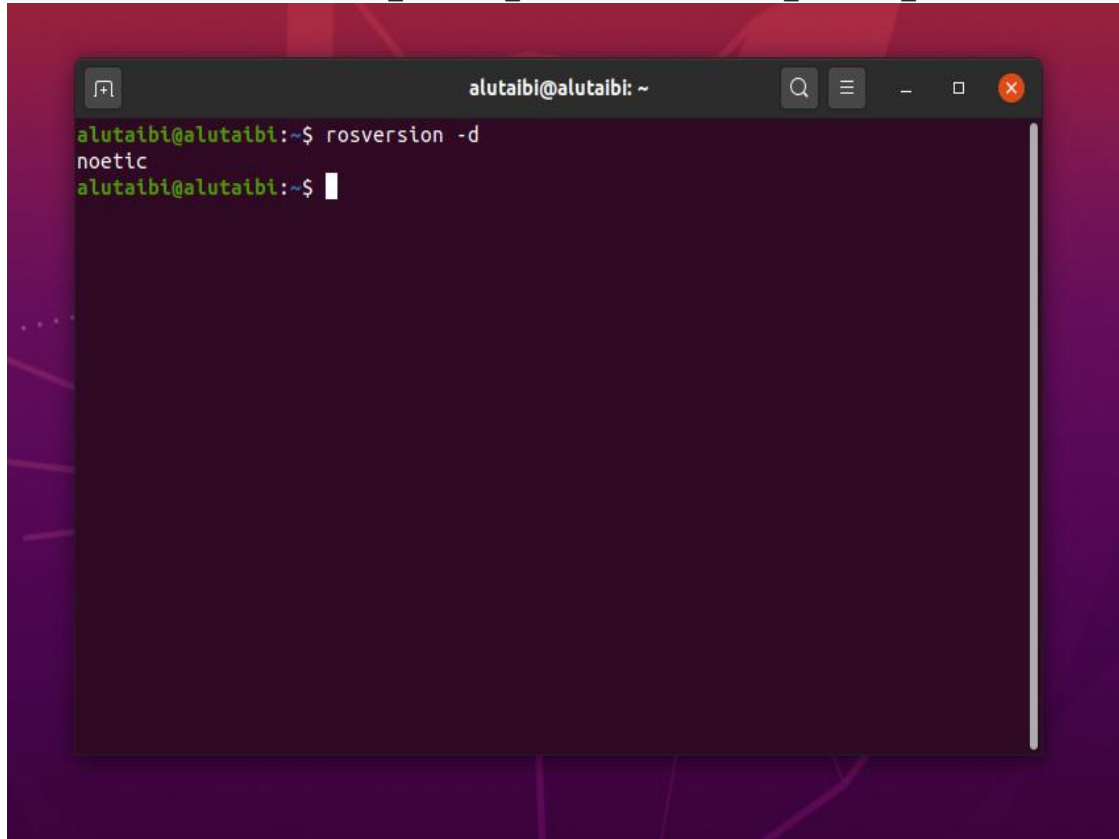
<https://ubuntu.com/download/desktop>



The screenshot shows the Ubuntu website's download page for Ubuntu 20.04 LTS. The header includes the Canonical logo, navigation links like 'Enterprise', 'Developer', 'Community', and 'Download', and a search bar. The main content area is titled 'Download Ubuntu Desktop' and features a large green 'Download' button. Below the button, there is text about the LTS version and a link to the 'Ubuntu 20.04 LTS release notes'. The footer mentions 'Recommended system requirements'.

### 3- Install the ROS on ubuntu 20.04

```
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
```



الخطوات:

تحميل الجهاز الافتراضي

تحميل نظام أوبونتو

**تحميل ROS**

