

INSTALLATIONS ROS IN PC

Step 1:Download "virtual box" from :<https://www.virtualbox.org/wiki/Downloads>

Step 2:Download "Ubuntu" from :<https://ubuntu.com/download/desktop>

Step 3:open "virtual box" >> "New">> do the setting >> start >> select the folder have the "Ununtu"

Step 4:Install Ubuntu>>continue the install>>select your location>>write your username and password

Step 5:open "terminal " >> copy the instructions in the ROS
wiki:<https://wiki.ros.org/melodic/Installation/Ubuntu> >> paste in "terminal"

INSTALLATIONS ROS IN JETSON NANO

Step 1: open "terminal"

Step 2: write "git clone <https://github.com/JetsonHacksNano/installROS.git>"

Step 3: \$ cd installROS

Step 4: \$./installROS -h

Step 5: we can add other ROS packages: -base
-desktop
-desktop - full

Step 6: \$./installROS.sh -p ros-melodic-desktop >> write the password >> waiting for installation ROS complete

Step 7: setup catkin workspace

Step 8: ./setupcatkinworkspace.sh

Step 9: \$ befit ~/.bashrc >> A new window will open, go to the bottom and make the settings suitable with your workspacification

Step 10: \$ source ~/.bashrc

Step 11: \$ roscore

Step 12: in another window for "terminal" >> \$rostopic list