I'm installing virtual box & Ubuntu & write some code to installing ros:

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

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

3- sudo apt update

4- sudo apt install ros-noetic-desktop-full
5- sudo apt install ros-noetic-desktop
6- sudo apt install ros-noetic-ros-base
7- sudo apt install ros-noetic-PACKAGE
8- sudo apt install ros-noetic-slam-gmapping
9- apt search ros-noetic
10-  source /opt/ros/noetic/setup.bash
11-  echo "source /opt/ros/noetic/setup.bash" >> ~/.bashrc
12-  source ~/.bashrc
13-  echo "source /opt/ros/noetic/setup.zsh" >> ~/.zshrc
14-  source ~/.zshrc
15-  sudo apt install python3-rosdep python3-rosinstall python3-rosinstall-
   generator python3-wstool build-essential
16-  sudo apt install python3-rosdep
17-  sudo rosdep init
18-  rosdep update
```