

Ubuntu installs of ROS

- **Step 1:** `sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'`
- **Step 2:** `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 -`
- **Step 3:** `sudo apt update`
- **Step 4:** `sudo apt install ros-noetic-desktop-full`
- **Step 5:** `apt search ros-noetic`
- **Step 6:** `source /opt/ros/noetic/setup.bash`
- **Step 7:** `echo "source /opt/ros/noetic/setup.bash" >> ~/.bashrc`
- `source ~/.bashrc`
- **Step 8:** `sudo apt install python3-rosdep python3-rosinstall python3-rosinstall-generator python3-wstool build-essential`
- **Step 9:** `sudo apt install python3-rosdep`
- **Step 10:** `sudo rosdep init`
- **Step 11:** `rosdep update`
- **Step 12:** Then you have to write “ **roscore** ” command to verify that Ros is installed.

