Steps to Install ROS on Jetson Nano

Set up the Jetson Nano to accept software;

STEP1: Open the “Terminal” application using the Ubuntu 18.

STEP2: Copy these 10 commands in the Terminal:

STEP2.1:

```
$ sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu
```

STEP2.2:

```
$(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'
```

STEP2.3:

```
$ sudo apt-key adv --keyserver 'hkp://keyserver.ubuntu.com:80' --recv-key
C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654
```

STEP2.4:

```
$ sudo apt update
```

STEP2.5:

```
$ sudo apt install ros-melodic-desktop
```

STEP2.6:

```
$ echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc
```

STEP2.7:

```
$ source ~/.bashrc
```

STEP2.8:

```
sudo apt install python-rosdep python-rosinstall python-rosinstall-generator python-wstool
build-essential
```

STEP2.9:

```
$ sudo rosdep init
```

STEP2.10:

```
$ rosdep update
```

Now the Jetson Nano is ready to execute ROS packages.

STEP3: Open a new terminal

STEP4: Copy these 6 commands in the Terminal:

STEP4.1:

```
$ sudo apt-get install cmake python-catkin-pkg python-empy python-nose python-setuptools libgtest-dev python-rosinstall python-rosinstall-generator python-wstool build-essential git
```

STEP4.2:

```
$ mkdir -p ~/catkin_ws/src
```

STEP4.3:

```
$ cd ~/catkin_ws/
```

STEP4.4:

```
$ catkin_make
```

STEP4.5:

```
$ echo "source ~/catkin_ws/devel/setup.bash" >> ~/.bashrc
```

STEP4.6:

```
$ source ~/.bashrc
```