

```
sudo apt update  
sudo apt install ros-noetic-desktop-full
```

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

```
sudo apt install ros-noetic-moveit  
sudo apt install ros-noetic-gazebo-ros-pkgs ros-noetic-gazebo-ros-control
```

```
mkdir -p ~/catkin_ws/src  
cd ~/catkin_ws  
catkin_make  
source devel/setup.bash
```

```
roslaunch moveit_setup_assistant setup_assistant.launch
```

```
roslaunch <robot_description_package> <gazebo_launch_file>.launch
```

```
roslaunch <moveit_configuration_package> demo.launch
```