

Environment build

system: Ubuntu20.04+ros-foxy

1、 Install the SDK

Copy the YDLidar-SDK under the function package folder to the terminal directory, enter the folder, enter the terminal,

```
cd YDLidar-SDK
mkdir build
cd build
cmake ..
make
sudo make install
```

2、 Create a workspace (take 4ROS_ws as an example)

```
mkdir -p 4ROS_ws/src
```

After decompressing 4ROS_ws_src.zip, get a src directory, put the ydlidar_ros2_driver-master in the directory into the src folder directory of your own workspace. Open the terminal, enter,

```
cd ~/4ROS_ws
colcon build
source install/setup.bash
echo "source ~/4ROS_ws/install/setup.bash" >> ~/.bashrc
source ~/.bashrc
```

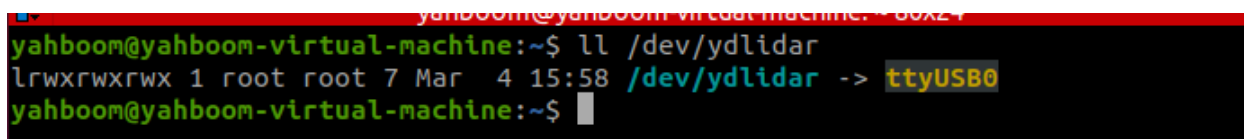
3、 Bind the radar USB serial port

Execute the install USB port remapping command,

```
cd ~/4ROS_ws/src/ydlidar_ros2_driver-master/startup
sudo chmod 777 *
sudo ./initenv.sh
```

After binding, unplug the radar again. View modified remaps using the following command,

```
ll /dev/ydlidar
```



The screenshot shows a terminal window with the command `ll /dev/ydlidar` being executed. The output is `lrwxrwxrwx 1 root root 7 Mar 4 15:58 /dev/ydlidar -> ttyUSB0`. The prompt is `yahboom@yahboom-virtual-machine:~$`.

Note: This is not necessarily ttyUSB0, as long as /dev/ydlidar is displayed, it means that the binding is successful

If you want to display it in rviz, enter in the terminal,

```
ros2 launch ydlidar_ros2_driver ydlidar_view_launch.py
```

