docker ps -a | grep ros_noetic_persistent

docker start ros_noetic_persistent

docker exec -it ros_noetic_persistent bash

docker run -it --name ros_noetic_persistent --net=host --device=/dev/input/js0 ros:noetic bash

source /opt/ros/noetic/setup.bash

roscore

```
vishal-alan@Vishal-alan.ROG: $ docker stop ros_noetic_persistent
docker rm ros_noetic_persistent
ros_noetic_persistent
ros_noetic_persistent
vishal-alan@Vishal-alan.ROG: $ docker run -it --name ros_noetic_persistent --net=host --device=/dev/input/js0 ros:noetic bash
root@Vishal-alan.ROG: # source /opt/ros/noetic/setup.bash
root@Vishal-alan.ROG: # roscore
... logging to /root/.ros/log/698405f4-f518-11ef-9581-346f24c06515/roslaunch-Vishal-alan-ROG-45.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://Vishal-alan-ROG:44615/
ros_comm version 1.17.0

SUNMARY
========

PARAMETERS
* /rosdistro: noetic
* /rosversion: 1.17.0

NODES

auto-starting new master
process[naster]: started with pld [53]
ROS_MASTER_URI=http://Vishal-alan-ROG:13311/
setarted core service [/rosouti]
started core service [/rosouti]
started core service [/rosouti]
```

```
docker exec -it ros_noetic_persistent bash source /opt/ros/noetic/setup.bash rosrun joy joy_node apt update && apt install -y ros-noetic-joy apt install -y ros-noetic-joy
```

```
bash: /home/vishal-alan/microros ws/install/setup.bash: No such file or directory
vishal-alan@vishal-alan.PBDC: $ docker exec. 'it ros.noetic_persistent bash
root@vishal-alan.RBDC:/# source /got/ros/noetic/setup.bash
root@vishal-alan.RBDC:/# source /got/ros/noetic/setup.bash
root@vishal-alan.RBDC:/# apt update
Get:1 http://packages.ros.org/ros/ubuntu focal InRelease [4679 B]
Get:2 http://securtiy.ubuntu.con/ubuntu focal-security inRelease [128 kB]
Get:3 http://archive.ubuntu.con/ubuntu focal-security.nata and64 Packages [822 kB]
Get:3 http://archive.ubuntu.con/ubuntu focal-security/nata and64 Packages [822 kB]
Get:5 http://archive.ubuntu.con/ubuntu focal-security/nata and64 Packages [423 kB]
Get:6 http://archive.ubuntu.con/ubuntu focal-backports inRelease [128 kB]
Get:7 http://archive.ubuntu.con/ubuntu focal-backports inRelease [128 kB]
Get:8 http://archive.ubuntu.con/ubuntu focal-security/restricted and64 Packages [1370 kB]
Get:9 http://security.ubuntu.con/ubuntu focal-security/restricted and64 Packages [138 kB]
Get:10 http://security.ubuntu.con/ubuntu focal-security/restricted and64 Packages [138 kB]
Get:11 http://security.ubuntu.con/ubuntu focal-security/restricted and64 Packages [138 kB]
Get:12 http://security.ubuntu.con/ubuntu focal-security/rustricted and64 Packages [138 kB]
Get:13 http://security.ubuntu.con/ubuntu focal-security/rustricted and64 Packages [138 kB]
Get:14 http://archive.ubuntu.con/ubuntu focal-security/rustricted and64 Packages [138 kB]
Get:15 http://archive.ubuntu.con/ubuntu focal-security/rustricted and64 Packages [148 kB]
Get:16 http://archive.ubuntu.con/ubuntu focal-updates/rastricted and64 Packages [148 kB]
Get:16 http://archive.ubuntu.con/ubuntu focal-updates/rastricted and64 Packages [148 kB]
Get:17 http://archive.ubuntu.con/ubuntu focal-updates/rastricted and64 Packages [148 kB]
Get:18 http://archive.ubuntu.con/ubuntu focal-updates/rastricted and64 Packages [1592 kB]
Get:18 http://archive.ubuntu.con/ubuntu focal-updates/rastricted and64 Packages [1592 kB]
Get:18 http://archive.ubun
```

docker exec -it ros_noetic_persistent bash source /opt/ros/noetic/setup.bash rostopic echo /joy

docker exec -it ros_noetic_persistent bash source /opt/ros/noetic/setup.bash python3 /root/Desktop/joystick_control.py

docker exec -it ros_noetic_persistent bash
source /opt/ros/noetic/setup.bash
rosrun rosserial_python serial_node.py /dev/ttyUSB0

apt update && apt install -y ros-noetic-rosserial-python

```
root@Vishal-alan-ROG:/

bash: /home/vishal-alan/microros_ws/install/setup.bash: No such file or director y
vishal-alan@Vishal-alan-ROG:-$ docker exec -it ros_noetic_persistent bash
root@Vishal-alan-ROG:/# source /opt/ros/noetic/setup.bash
root@Vishal-alan-ROG:/# rosrun rosserial_python serial_node.py /dev/ttyUSB0
[rospack] Error: package 'rosserial_python' not found
root@Vishal-alan-ROG:/# apt update && apt install -y ros-noetic-rosserial-python
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://packages.ros.org/ros/ubuntu focal InRelease
Get:3 http://security.ubuntu.com/ubuntu focal-security InRelease [128 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease [128 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease [128 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [4729 k
B]
Get:7 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [15
```

Potentiometer and steering angle

rostopic echo /potentiometer_data rostopic echo /steering_angle

Terminal 5

docker exec -it ros_noetic_persistent bash source /opt/ros/noetic/setup.bash rostopic echo /nano_control