Enter the robot's docker container

Note: The virtual machine needs to be in the same LAN as the car, and the ROS_DOMAIN_ID must be the same. You can refer to [Read Before Use] to set the IP and ROS_DOMAIN_ID on the board.

Taking the matching virtual machine as an example, enter the following command to enter the docker container:

```
sudo docker run -it --rm -v /dev:/dev -v /dev/shm:/dev/shm --privileged --net = host microros/micro-ros-agent:humble udp4 --port 8888 -v4
```

After starting the container, the proxy will be turned on, the car switch will be turned on, and the car will be connected to the proxy. The connection is successful as shown in the figure below.

```
| client_key: 0x0B62A009, par
                                                   | create_participant
icipant_id: 0x000(1)
                                                                                                       | client_key: 0x0B62A009, topi
                                                  | create_topic
c_id: 0x000(2), participant_id: 0x000(1)
                                                  | create_publisher
                                                                                                       | client_key: 0x0862A009, publ
isher_id: 0x000(3), participant_id: 0x000(1)
                                                                                                       | client_key: 0x0B62A009, data
                                                  | create_datawriter
writer_id: 0x000(5), publisher_id: 0x000(3)
                                                                                                       | client_key: 0x0B62A009, topi
                                                  | create_topic
d: 0x001(2), participant id: 0x000(1)
                                                                                                       | client_key: 0x0B62A009, publ
isher_id: 0x001(3), participant_id: 0x000(1)
                                                                                                      | client_key: 0x0B62A009, data
                                                  | create_datawriter
writer_id: 0x001(5), publisher_id: 0x001(3)
                                                  | create topic
                                                                                                       I client key: 0x0862A009, topi
:_id: 0x002(2), participant_id: 0x000(1)
                                                                                                      | client_key: 0x0862A009, publ
                                                  | create publisher
isher_id: 0x002(3), participant_id: 0x000(1)
                                                                                                      | client_key: 0x0B62A009, data
writer_id: 0x002(5), publisher_id: 0x002(3)
                                                                                                       | client_key: 0x0862A009, top1
c_id: 0x003(2), participant_id: 0x000(1)
                                                                                                       | client_key: 0x0862A009, subs
criber_id: 0x000(4), participant_id: 0x000(1)
                                                                                                       | client key: 0x0B62A009, data
                                                  | create datareader
reader_id: 0x000(6), subscriber_id: 0x000(4)
                                                                                                       | client key: 0x0862A009, topi
                                                  | create topic
:_id: 0x004(2), participant_id: 0x000(1)
                                                                                                      | client_key: 0x0862A009, subs
criber_id: 0x001(4), participant_id: 0x000(1)
                                                                                                       | client_key: 0x0862A009, data
reader_td: 0x001(6), subscriber_td: 0x001(4)
                                                                                                       | client_key: 0x0B62A009, topi
c_id: 0x005(2), participant_id: 0x000(1)
                                                                                                       | client_key: 0x0B62A009, subs
                                                  | create_subscriber
:riber_id: 0x002(4), participant_id: 0x000(1)
                                                                                                       | client_key: 0x0B62A009, data
```

After the car is connected, a node named /YB_Car_Node will be started. Enter the following command in the terminal of the matching virtual machine to query:

ros2 node list

yahboom@yahboom-VM:~\$ ros2 node list
/YB_Car_Node