Moveit scenario design

1. Usage environment

Motherboard: Jetson Orin Nano/Nx

ROS2: Humble

2. Driving the real machine

Driving the real machine is to convert the joint state information of the robot arm into the control of the real robot arm by subscribing to the /joint_states topic of Moveit2.

Note: Since the real robot arm does not have an obstacle avoidance function, some positions may hit obstacles; so the planned robot arm movements should be as reasonable as possible and avoid obstacles

(It is recommended to use preset positions to demonstrate driving the real machine)

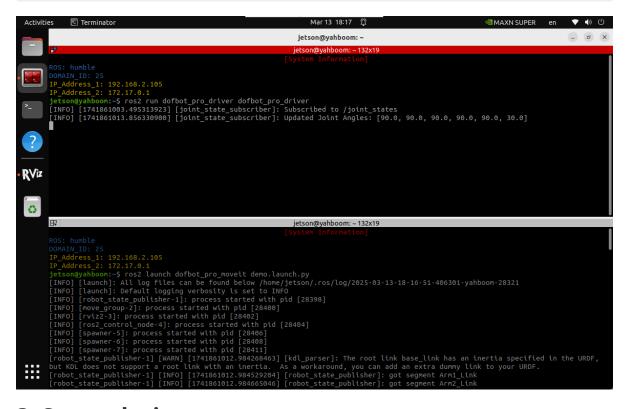
2.1. Start the real machine

If you do not drive the real machine, simulate the robot arm movements in Movelt:

ros2 run dofbot_pro_driver dofbot_pro_driver

2.2. Start Movelt2

ros2 launch dofbot_pro_moveit demo.launch.py



3. Scene design

Add a cylinder in RViz2, and the robot arm grabs the cylinder and moves to the specified position.

Start command

The robot needs to be successfully loaded in Movelt and You can start planning now! appears. Run the following command: The robot will plan the Cartesian path by itself

ros2 run dofbot_pro_moveit set_scene

