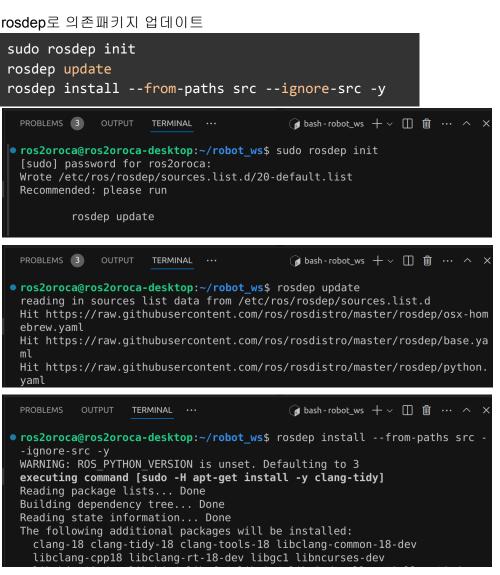
- 0. 라즈베리파이5에서 ROS2 jazzy 기반에서 진행
- 1. micro_ros_setup Install
 - 1) git clone으로 micro ros setup 가져오기

```
cd ~/robot_ws/src
git clone -b jazzy https://github.com/micro-ROS/micro_ros_setup.git
cd ..
                   TERMINAL
                                            oros2oroca@ros2oroca-desktop:~$ cd ~/robot ws/src/
• ros2oroca@ros2oroca-desktop:~/robot_ws/src$ git clone -b jazzy https://gi
  thub.com/micro-ROS/micro ros setup.git
 Cloning into 'micro_ros_setup'...
 remote: Enumerating objects: 3993, done. remote: Counting objects: 100% (285/285), done.
  remote: Compressing objects: 100% (177/177), done.
  remote: Total 3993 (delta 233), reused 111 (delta 108), pack-reused 3708
  (from 3)
 Receiving objects: 100% (3993/3993), 934.15 KiB | 10.50 MiB/s, done.
  Resolving deltas: 100% (2754/2754), done.
ros2oroca@ros2oroca-desktop:~/robot_ws/src$ cd
```

2) rosdep로 의존패키지 업데이트



3) micro_ros_setup 빌드

```
source /opt/ros/jazzy/setup.bash
colcon build --symlink-install --packages-select micro_ros_setup
source install/local_setup.bash
```

주의) source /opt/ros/jazzy/setup.bash 를 안하면 다음과 같이 에러가 난다.

source /opt/ros/jazzy/setup.bash_를 입력하여 정상일 때

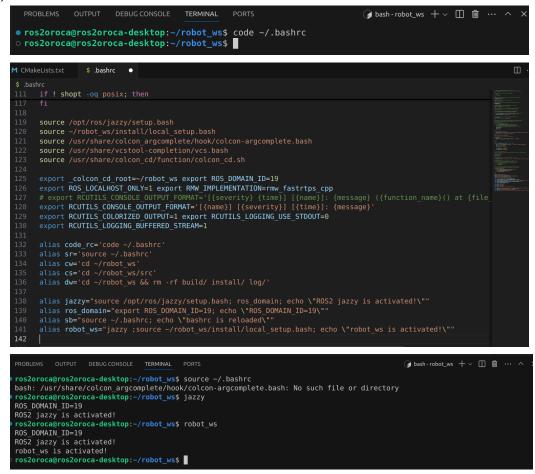
```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL PORTS

• ros2oroca@ros2oroca-desktop:~/robot_ws$ source /opt/ros/jazzy/setup.bash
• ros2oroca@ros2oroca-desktop:~/robot_ws$ colcon build --symlink-install --packages-select micro_r os_setup
Starting >>> micro_ros_setup
Finished <<< micro_ros_setup [2.97s]

Summary: 1 package finished [3.19s]
• ros2oroca@ros2oroca-desktop:~/robot_ws$
```

2. micro_ros_agent build

0) alias 정의를 위해 .bashrc 파일 수정



1) Download micro-ROS-Agent packages

ros2 run micro_ros_setup create_agent_ws.sh

```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL PORTS

Pros2oroca@ros2oroca-desktop:~/robot_ws$ ros2 run micro_ros_setup create_agent_ws.sh
//usr/bin/vcs:6: DeprecationWarning: pkg_resources is deprecated as an API. See https://setuptools.pypa.io/en/latest/pkg_resources.html
from pkg_resources import load_entry_point
//usr/bin/vcs:6: DeprecationWarning: pkg_resources is deprecated as an API. See https://setuptools.pypa.io/en/latest/pkg_resources.html
from pkg_resources import load_entry_point
...
=== ./uros/drive_base (git) ===
Cloning into '.'...
=== ./uros/micro_ros_msgs (git) ===
Cloning into '.'...
#All required rosdeps installed successfully
ros2oroca@ros2oroca-desktop:~/robot_ws$ ■
```

2) Build micro-ROS-Agent

ros2 run micro_ros_setup build_agent.sh

```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL PORTS

• ros2oroca@ros2oroca-desktop:-/robot_ws$ ros2 run micro_ros_setup build_agent.sh
Building micro-ROS Agent
Starting >> micro_ros_msgs
Finished << micro_ros_msgs [19.8s]
Starting >> micro_ros_agent
[Processing: micro_ros_agent]
[Processing: micro_ros_agent]
[Processing: micro_ros_agent]
[Processing: micro_ros_agent]
[Processing: micro_ros_agent]
Cloning into 'xrceagent'...
HEAD is now at 7362281 Release v2.4.3
Cloning into 'spdlog'...
HEAD is now at eb322062 Bump version to 1.9.2
---
Finished <<< micro_ros_agent [2min 8s]

Summary: 2 packages finished [2min 28s]
1 package had stderr output: micro_ros agent
• ros2oroca@ros2oroca-desktop:-/robot_ws$
```

3) micro-ROS Build

source ~/robot_ws/install/local_setup.bash colcon build

```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL PORTS

● ros2oroca@ros2oroca-desktop:-/robot_ws$ colcon build

Starting >>> micro_ros_msgs
Starting >>> micro_ros_setup
Finished <<< micro_ros_setup [0.99s]
Finished <<< micro_ros_agent
Finished <<< micro_ros_adent
Finished <<< micro_ros_adent
Finished <</ micro_ros_adent
Finished <</ micro_ros_adent
Finished <</ micro_ros_adent
Finished <</mi>
```