

Nodes and Topics

- **Nodes**: Individual processes that perform computation. In your case, you have nodes like path_pl anner and turtle1.
- **Topics**: Channels over which nodes communicate. They publish messages to topics or subscribe t o receive messages. Your path_planner node publishes velocity commands to the turtle1/cmd_v el topic.

Path Planner Node

- **Publisher**: The path_planner node creates a publisher for the turtle1/cmd_vel topic. It sends co mmands that dictate how the turtle should move.
- **Timer Callback**: This function gets called periodically. It checks the trajectory parameter and calls the appropriate function (circle_trajectory, square_trajectory, infinity_trajectory, star_trajectory) to generate movement commands.