

## PRACTICE CHAPTER 3

### 1. Creating the ROS package for the robot description

Before creating the URDF file for the robot, let's create an ROS package in the catkin workspace so that the robot model keeps using the following command:

```
catkin_create_pkg mastering_ros_robot_description_pkg roscpp tf
geometry_msgs urdf rviz xacro
```

The package mainly depends on the urdf and xacro packages. If these packages have not been installed on to your system, you can install them using the package manager:

```
sudo apt-get install ros-noetic-urdf
```

```
sudo apt-get install ros-noetic-xacro
```

Saat memasukkan command ini, file tidak bisa dimuat

```
Ubuntu-2204:~/launch$ catkin_create_pkg mastering_ros_robot_description_pkg roscpp tf geometry_msgs
urdf rviz xacro
Created file mastering_ros_robot_description_pkg/package.xml
Created file mastering_ros_robot_description_pkg/CMakeLists.txt
Created folder mastering_ros_robot_description_pkg/include/mastering_ros_robot_description_pkg
Created folder mastering_ros_robot_description_pkg/src
Successfully created files in /home/ikhwan/launch/mastering_ros_robot_description_pkg. Please adjust the
dependencies in package.xml.
Ubuntu-2204:~/launch$ sudo apt-get install ros-noetic-urdf
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package ros-noetic-urdf
Ubuntu-2204:~/launch$ sudo apt-get install ros-noetic-xacro
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package ros-noetic-xacro
```

```
git clone https://github.com/qboticslabs/mastering_ros_3rd_
edition.git
```

```
cd mastering_ros_robot_description_pkg/
```

```
Processing triggers for man-db (2.10.2-1) ...
ikhwan@Ubuntu-2204:~/launch$ git clone https://github.com/qboticslabs/mastering_ros_3rd_edirion.git
Cloning into 'mastering_ros_3rd_edirion'...
Username for 'https://github.com': wanteng
Password for 'https://wanteng@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-reposito
ries#cloning-with-https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/qboticslabs/mastering_ros_3rd_edirion.git/'
ikhwan@Ubuntu-2204:~/launch$ cd mastering_ros_robot_description_pkg/
ikhwan@Ubuntu-2204:~/launch/mastering_ros_robot_description_pkg$
```

Tidak bisa melanjutkan langkah selanjutnya, sering error