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## Chapter 1

```
sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" >
/etc/apt/sources.list.d/ros-latest.list'
```

```
sudo apt install curl
```

```
curl -s https://raw.githubusercontent.com/ros/rosdistro/master/ros.asc | sudo apt-key
add -
```

```
sudo apt update
```

```
sudo apt install ros-noetic-desktop-full
```

```
sudo apt install ros-noetic-desktop
```

```
sudo apt install ros-noetic-ros-base
```

```
sudo apt install ros-noetic-PACKAGE
```

## Chapter 2

```
source /opt/ros/noetic/setup.bash
```

```
Sudo apt update
```

```
sudo apt clean
```

```
sudo rm -rf /var/lib/apt/lists/*
```

```
sudo apt update
```

```
sudo apt install git python3-pip python3-rosdep python3-catkin-tools
```

```
sudo rosdep init
rosdep update
sudo rm /etc/ros/rosdep/sources.list.d/20-default.list
sudo rosdep init
rosdep update
cd ~/Downloads
git clone https://github.com/PacktPublishing/Mastering-ROS-for-Robotics-Programming-Third-edition.git repository
cd ~/Downloads/repository
ls # Pastikan folder Chapter2 ada
mkdir src
mv Chapter2 src/
rosdep install --from-paths src --ignore-src -r -y
catkin_make
source devel/setup.bash

Roscore

source ~/Downloads/repository/devel/setup.bash
roslaunch mastering_ros_demo_pkg demo_topic_publisher
source ~/Downloads/repository/devel/setup.bash
roslaunch mastering_ros_demo_pkg demo_topic_subscriber
Lalu roslaunch mastering_ros_demo_pkg demo_msg_publisher
roslaunch mastering_ros_demo_pkg demo_msg_subscriber
roslaunch mastering_ros_demo_pkg demo_service_server
roslaunch mastering_ros_demo_pkg demoservice_client
Rosrun mastering_ros_demo_pkg demo_action_server
Rosrun mastering_ros_demo_pkg demo_action_client
```

