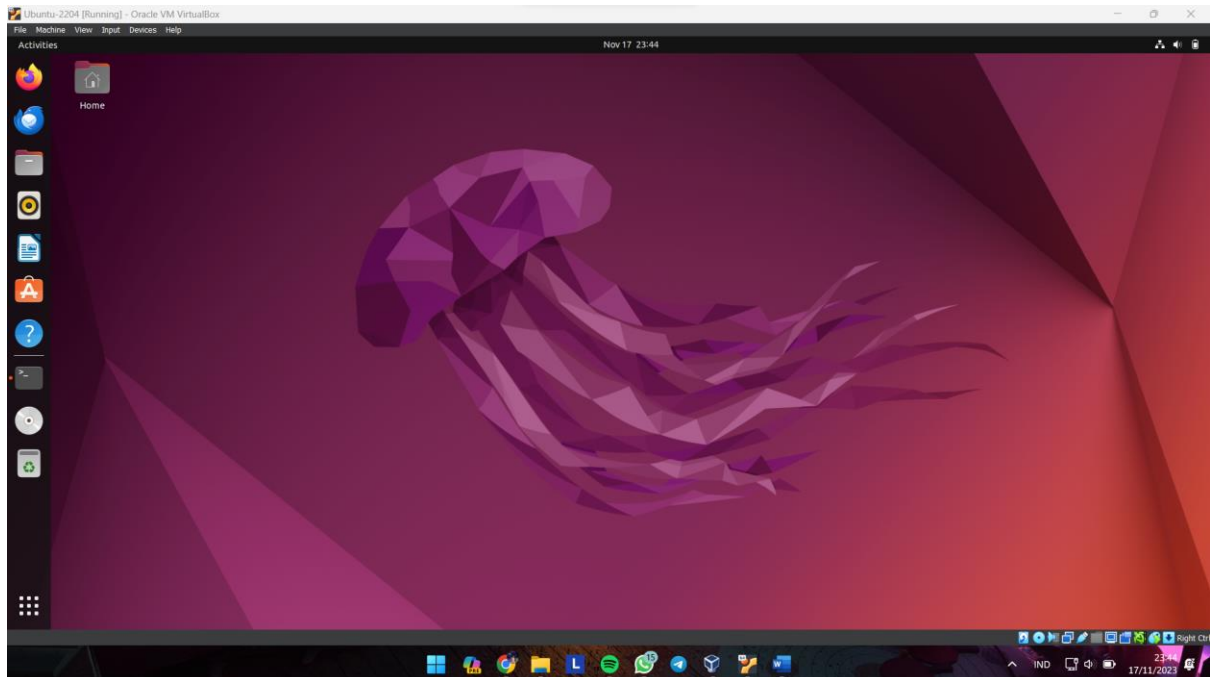


MUHAMMAD IKHWAN MAULANA

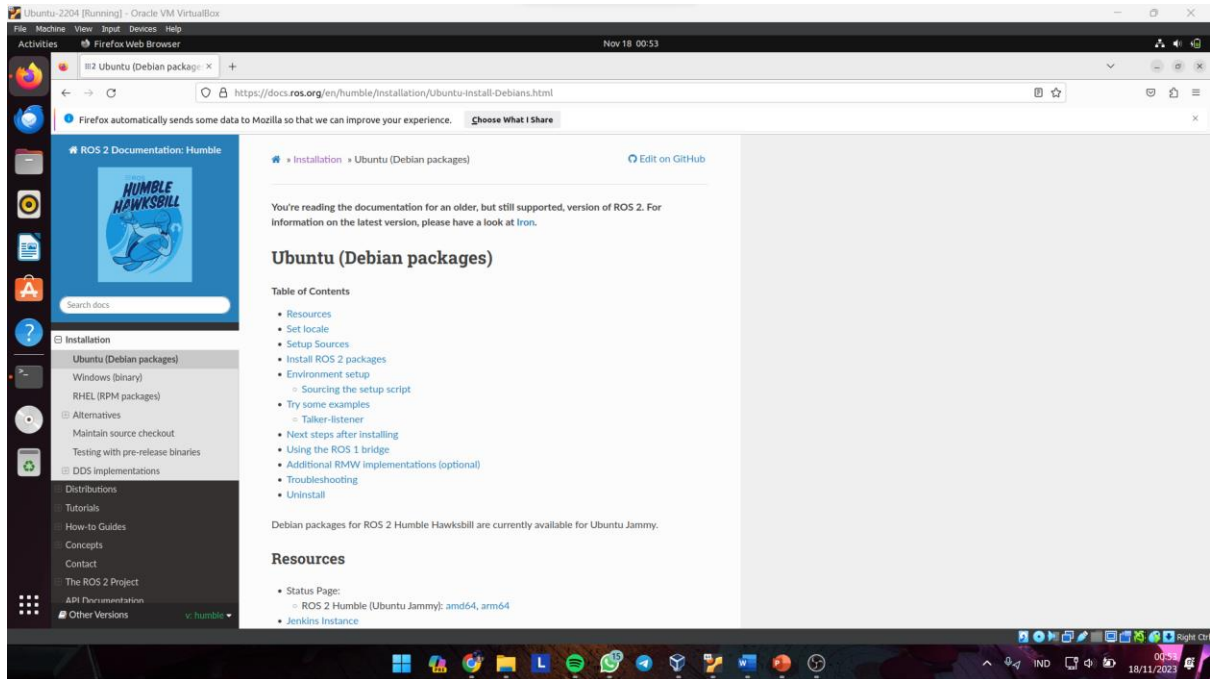
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Intro: Install and Setup ROS2 Humble - ROS2 Tutorial 1

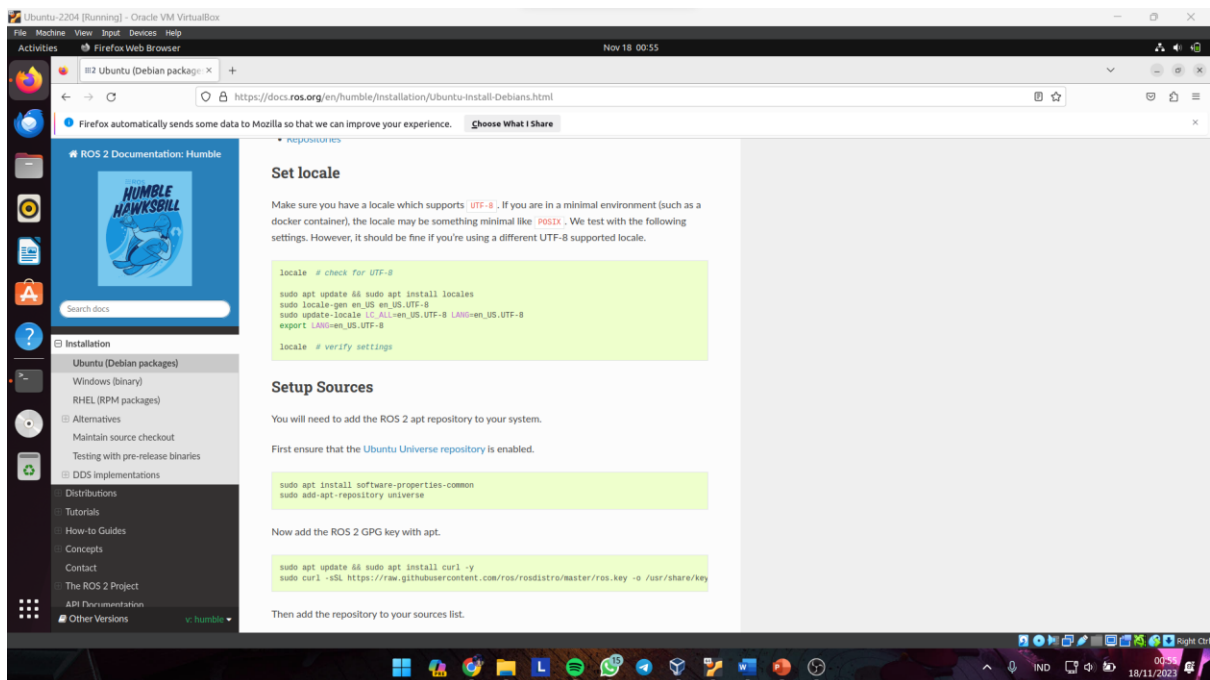
1. Siapkan virtual machine yang sudah ter install ubuntu linux terlebih dahulu, disini saya menggunakan ubuntu 22.04.3



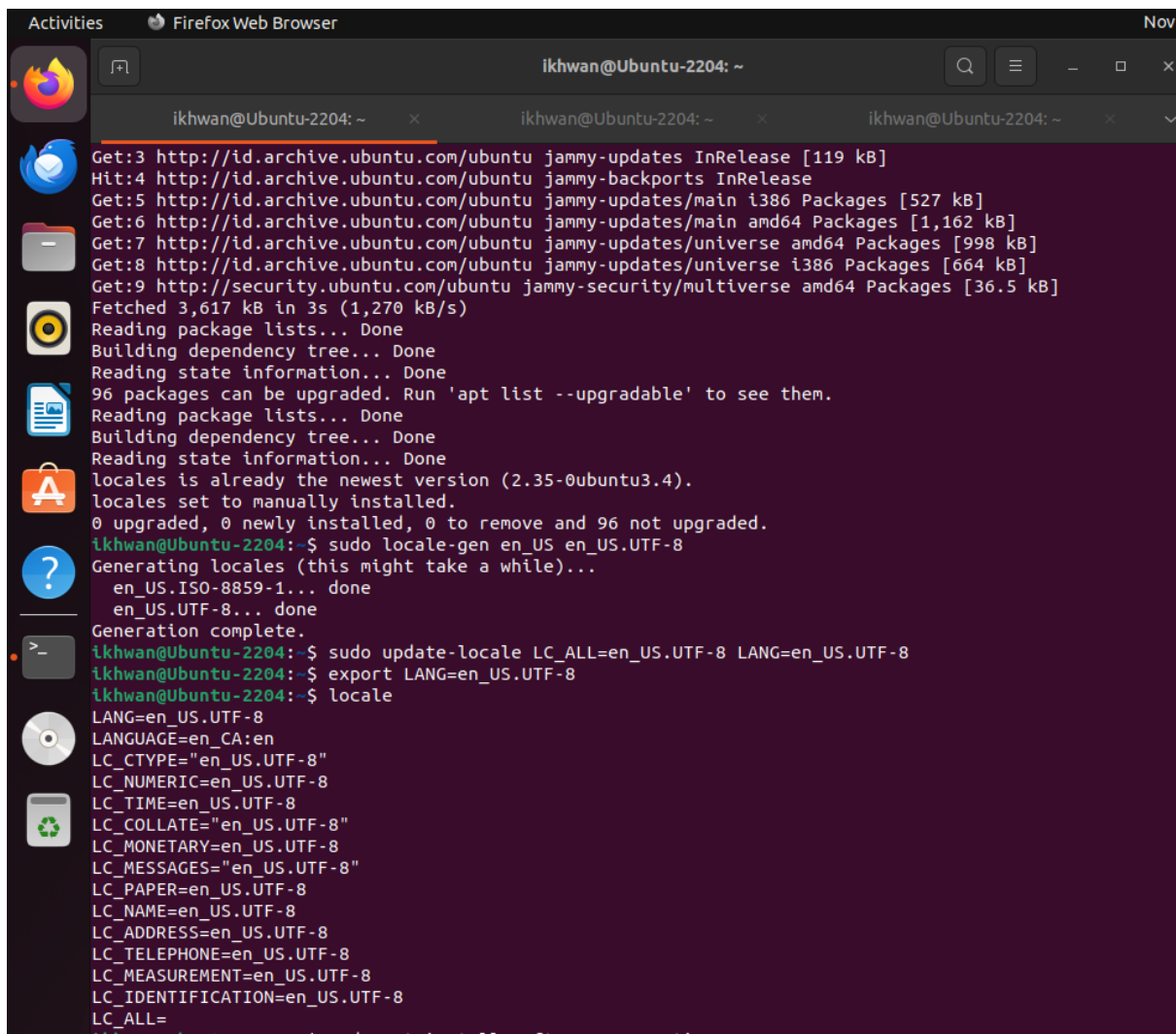
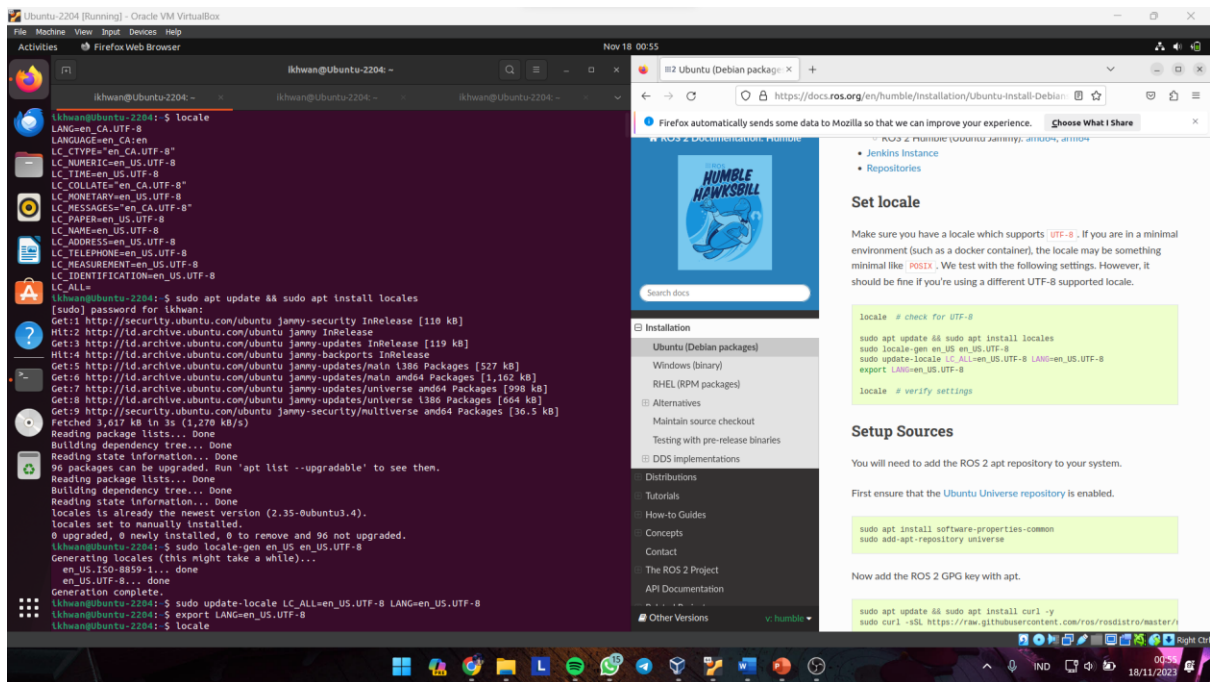
2. Lalu buka firefox web browser dan buka link <https://docs.ros.org/en/humble/Installation/Ubuntu-Install-Debians.html>



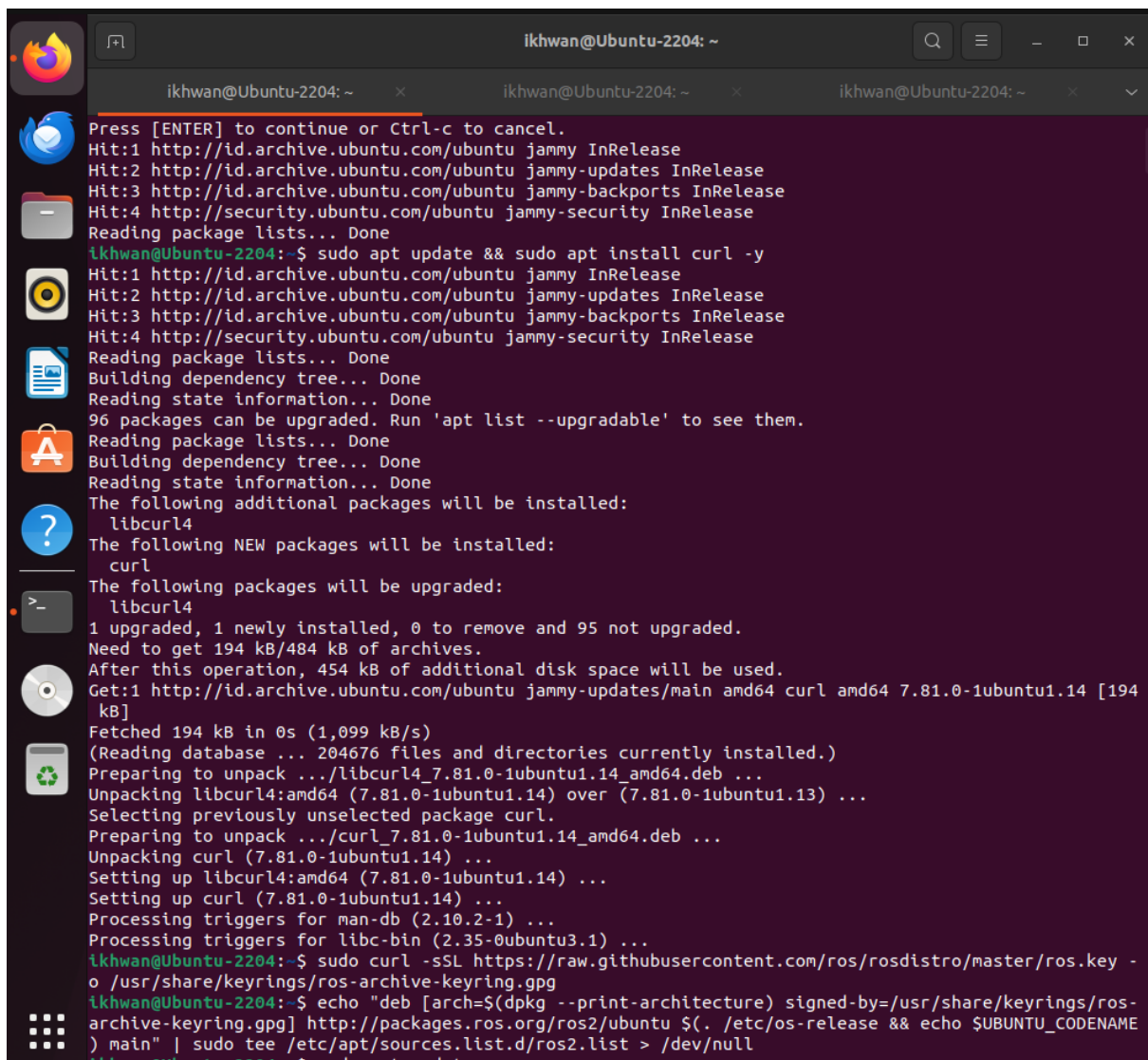
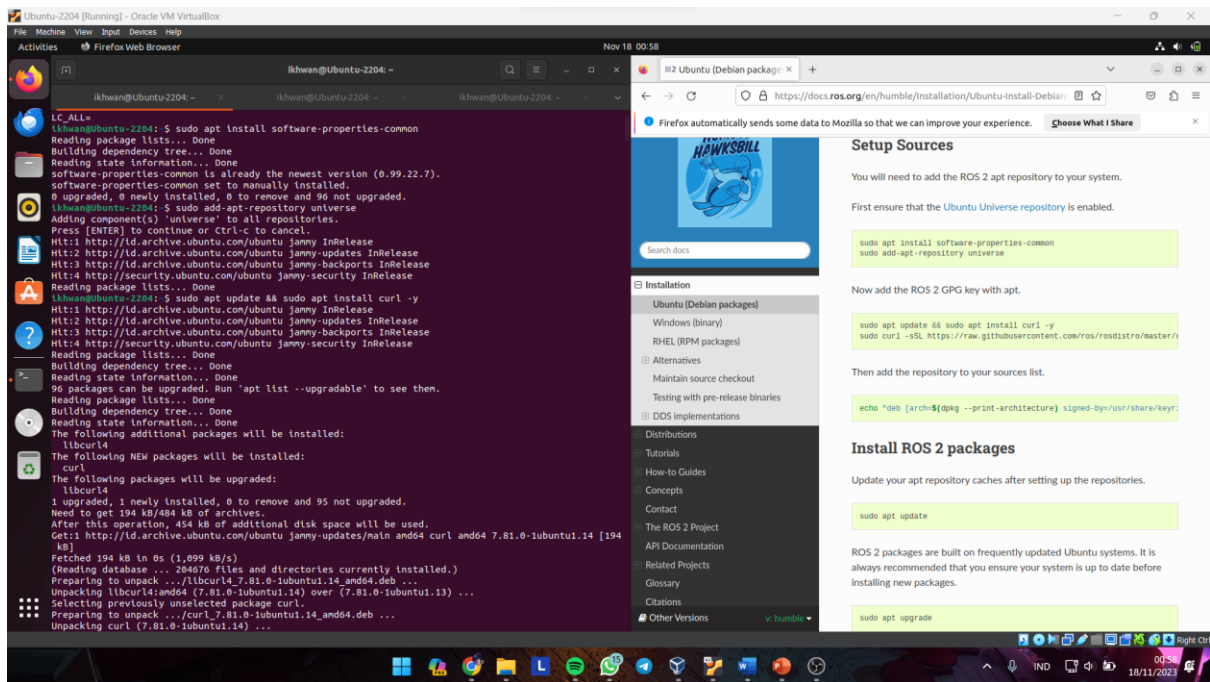
3. Scroll sedikit kebawah, nanti akan ada perintah perintah yang akan digunakan pada terminal



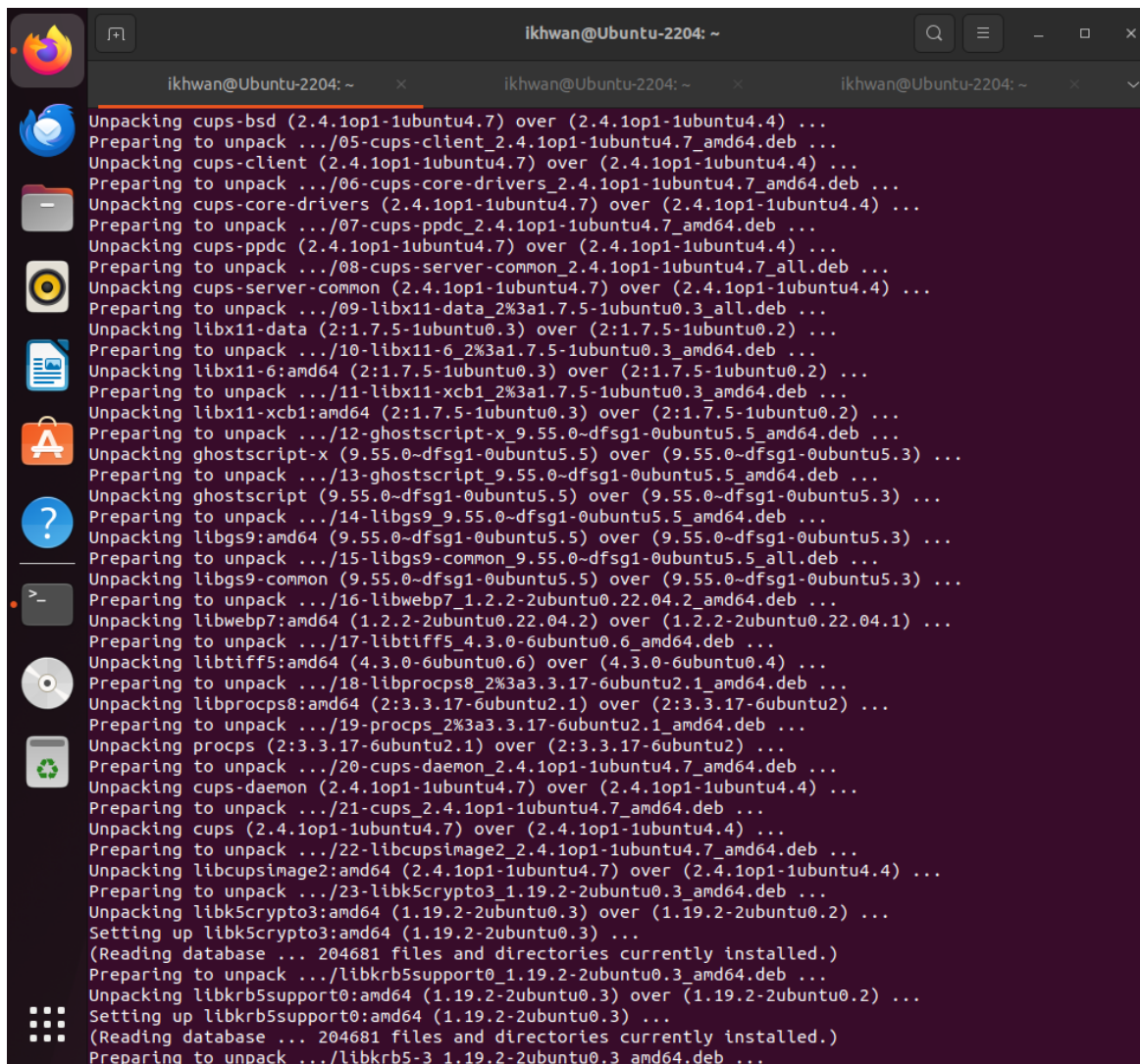
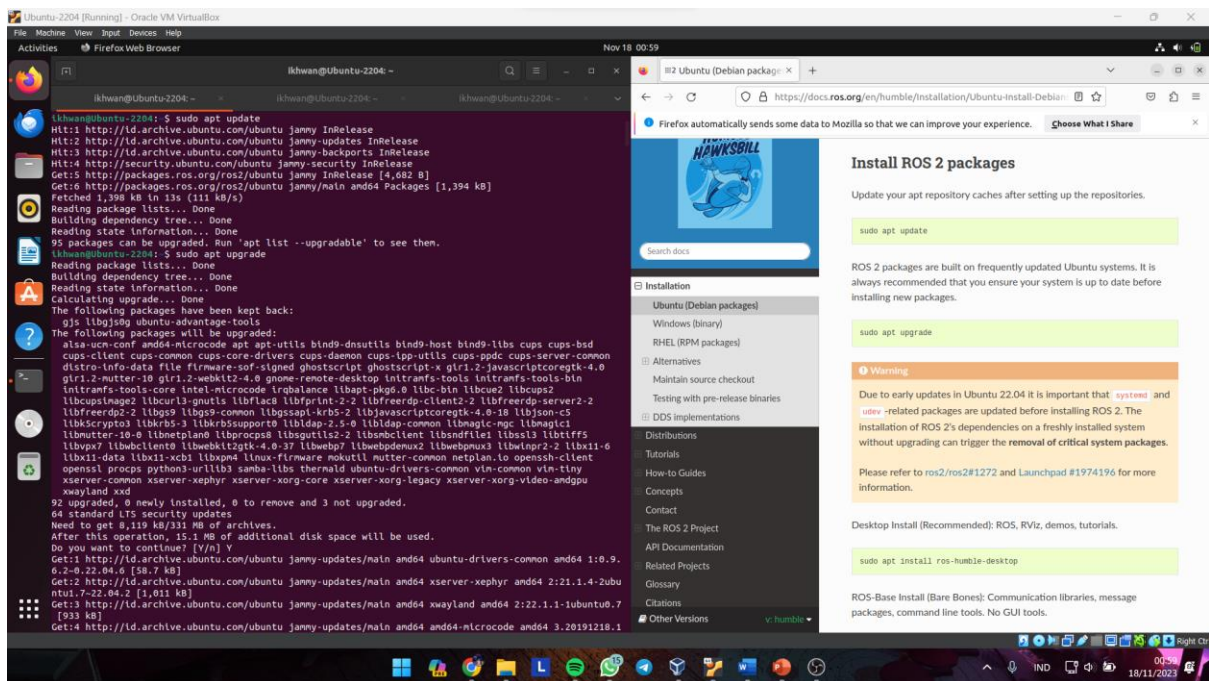
4. Buka terminal lalu ikuti langkah langkahnya
5. Langkah pertama yaitu **Set Locate**



6. Langkah selanjutnya yaitu Setup Sources



7. Langkah selanjutnya adalah **Install ROS2 Packages**




```

ikhwan@Ubuntu-2204:~$ source /opt/ros/humble/setup.bash
ikhwan@Ubuntu-2204:~$ ros2
usage: ros2 [-h] [--use-python-default-buffering]
          Call 'ros2 <command> -h' for more detailed usage. ...

ros2 is an extensible command-line tool for ROS 2.

options:
  -h, --help            show this help message and exit
  --use-python-default-buffering
                        Do not force line buffering in stdout and instead use the python default
                        buffering, which might be affected by PYTHONUNBUFFERED/-u and depends on
                        whatever stdout is interactive or not

Commands:
  action               Various action related sub-commands
  bag                  Various rosbag related sub-commands
  component            Various component related sub-commands
  daemon               Various daemon related sub-commands
  doctor               Check ROS setup and other potential issues
  interface            Show information about ROS interfaces
  launch               Run a launch file
  lifecycle             Various lifecycle related sub-commands
  multicast            Various multicast related sub-commands
  node                 Various node related sub-commands
  param                Various param related sub-commands
  pkg                  Various package related sub-commands
  run                  Run a package specific executable
  security              Various security related sub-commands
  service              Various service related sub-commands
  topic               Various topic related sub-commands
  wtf                  Use 'wtf' as alias to 'doctor'

Call 'ros2 <command> -h' for more detailed usage.
ikhwan@Ubuntu-2204:~$ gedit ~/bashrc

```

11. Kita coba buka terminal baru dan ketik comman “ros2”, maka akan muncul command “ros2: command not found”, agar setiap kita ketik command “ros2” keluar informasi, maka kita akan masuk ke dalam file bash dan kita masukkan command “source /opt/ros/humble/setup.bash”

```

ikhwan@Ubuntu-2204:~$ ros2
ros2: command not found
ikhwan@Ubuntu-2204:~$ source /opt/ros/humble/setup.bash
ikhwan@Ubuntu-2204:~$ ros2
usage: ros2 [-h] [--use-python-default-buffering]
          Call 'ros2 <command> -h' for more detailed usage. ...

ros2 is an extensible command-line tool for ROS 2.

options:
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  run                  Run a package specific executable
  security              Various security related sub-commands
  service              Various service related sub-commands
  topic               Various topic related sub-commands
  wtf                  Use 'wtf' as alias to 'doctor'

Call 'ros2 <command> -h' for more detailed usage.
ikhwan@Ubuntu-2204:~$

```

