

# Install Ros Noetic On Ubuntu 20.04



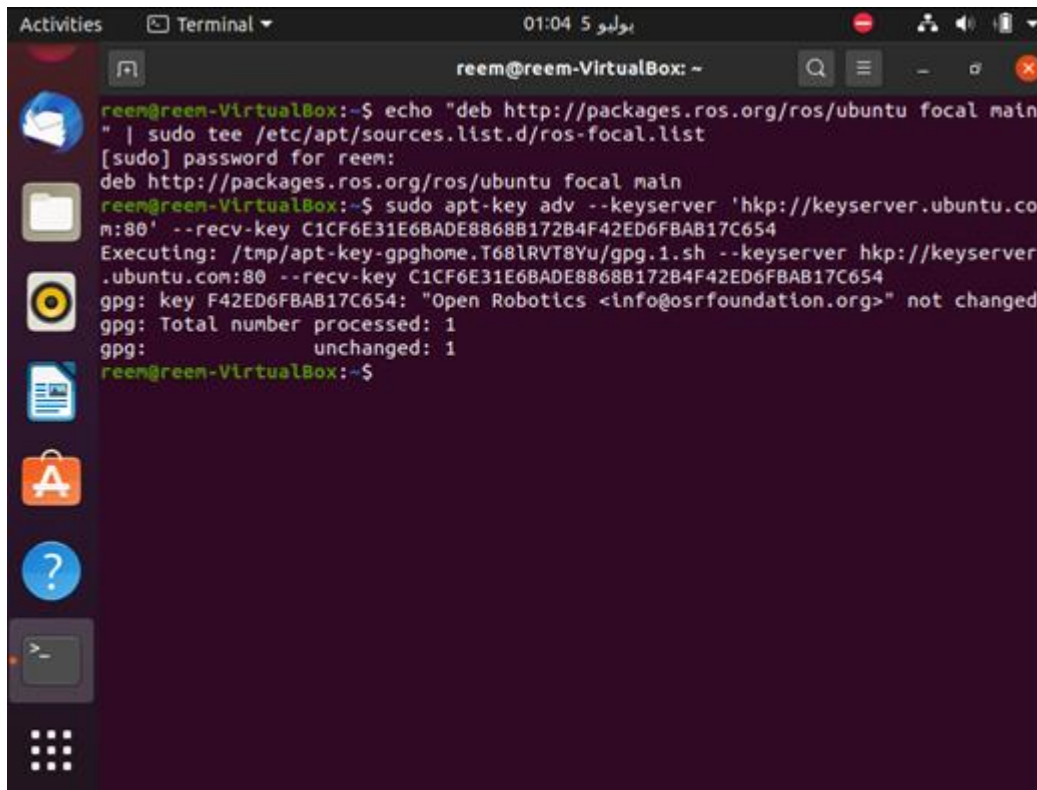
## Step1: set up Ros Noetic repo on Ubuntu 20.04

```
echo "deb http://packages.ros.org/ros/ubuntu focal main" | sudo tee  
/etc/apt/sources.list.d/ros-focal.list
```

```
reem@reem-VirtualBox:~$ echo "deb http://packages.ros.org/ros/ubuntu focal main  
" | sudo tee /etc/apt/sources.list.d/ros-focal.list  
[sudo] password for reem:  
deb http://packages.ros.org/ros/ubuntu focal main  
reem@reem-VirtualBox:~$
```

## Step2: Add Official Ros Keyring

```
sudo apt-key adv --keyserver 'hkp://keyserver.ubuntu.com:80' --recv-key  
C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654
```

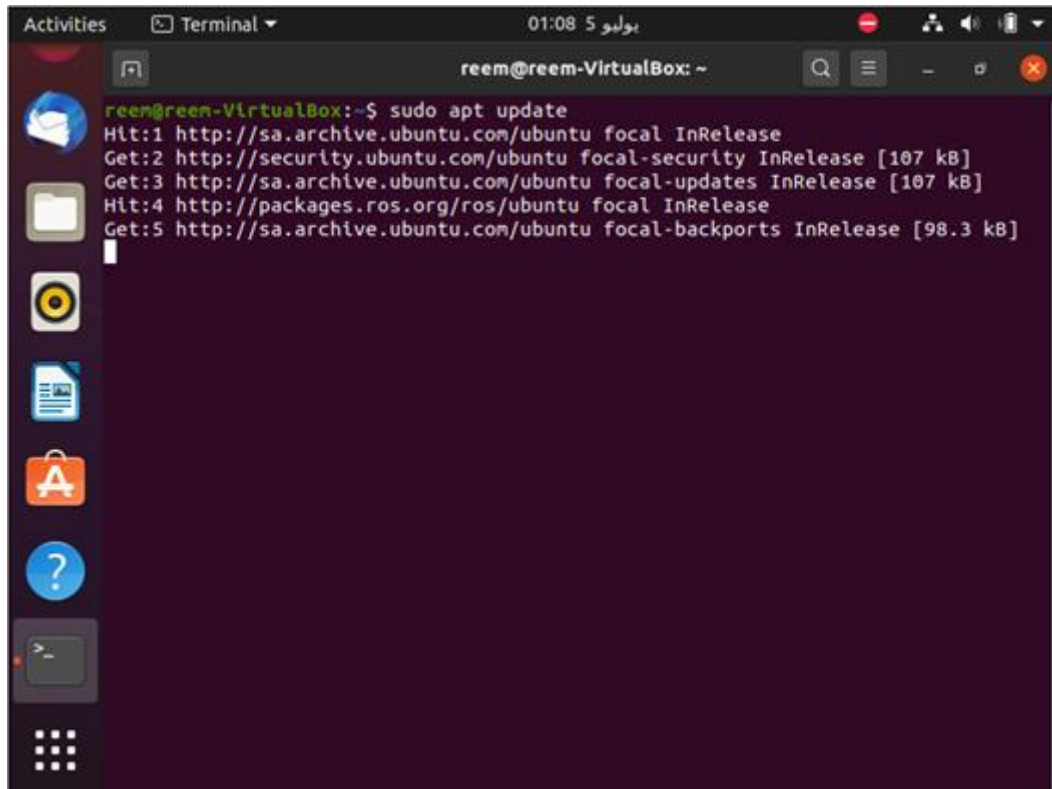
A terminal window titled 'reem@reem-VirtualBox: ~' with a dark purple background. The terminal shows the following commands and output:

```
reem@reem-VirtualBox:~$ echo "deb http://packages.ros.org/ros/ubuntu focal main  
" | sudo tee /etc/apt/sources.list.d/ros-focal.list  
[sudo] password for reem:  
deb http://packages.ros.org/ros/ubuntu focal main  
reem@reem-VirtualBox:~$ sudo apt-key adv --keyserver 'hkp://keyserver.ubuntu.co  
m:80' --recv-key C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654  
Executing: /tmp/apt-key-gpghome.T68lRVT8Yu/gpg.1.sh --keyserver hkp://keyserver  
.ubuntu.com:80 --recv-key C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654  
gpg: key F42ED6FBAB17C654: "Open Robotics <info@osrfoundation.org>" not changed  
gpg: Total number processed: 1  
gpg: unchanged: 1  
reem@reem-VirtualBox:~$
```

The terminal window includes a top bar with 'Activities', 'Terminal', and a clock showing '01:04 5 يوليو'. On the left side, there is a vertical dock with icons for a file manager, a terminal, a web browser, and other applications.

### Step3: Update Ros package index

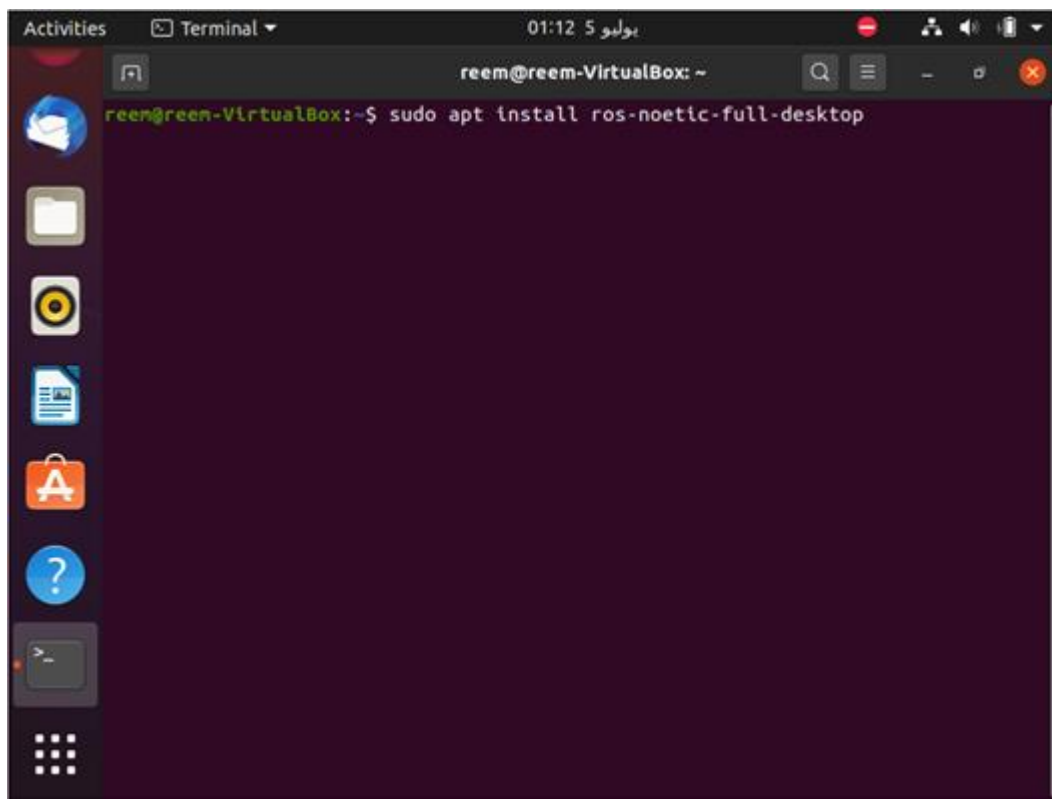
```
sudo apt update
```

A screenshot of a terminal window titled 'reem@reem-VirtualBox: ~'. The window shows the output of the 'sudo apt update' command. The output lists five sources being updated: 'http://sa.archive.ubuntu.com/ubuntu focal InRelease', 'http://security.ubuntu.com/ubuntu focal-security InRelease [107 kB]', 'http://sa.archive.ubuntu.com/ubuntu focal-updates InRelease [107 kB]', 'http://packages.ros.org/ros/ubuntu focal InRelease', and 'http://sa.archive.ubuntu.com/ubuntu focal-backports InRelease [98.3 kB]'. The terminal has a dark purple background and a light-colored text. The window's title bar includes 'Activities', 'Terminal', and a clock showing '01:08 5 يوليو'. The left sidebar of the window shows various application icons.

```
reem@reem-VirtualBox:~$ sudo apt update
Hit:1 http://sa.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [107 kB]
Get:3 http://sa.archive.ubuntu.com/ubuntu focal-updates InRelease [107 kB]
Hit:4 http://packages.ros.org/ros/ubuntu focal InRelease
Get:5 http://sa.archive.ubuntu.com/ubuntu focal-backports InRelease [98.3 kB]
```

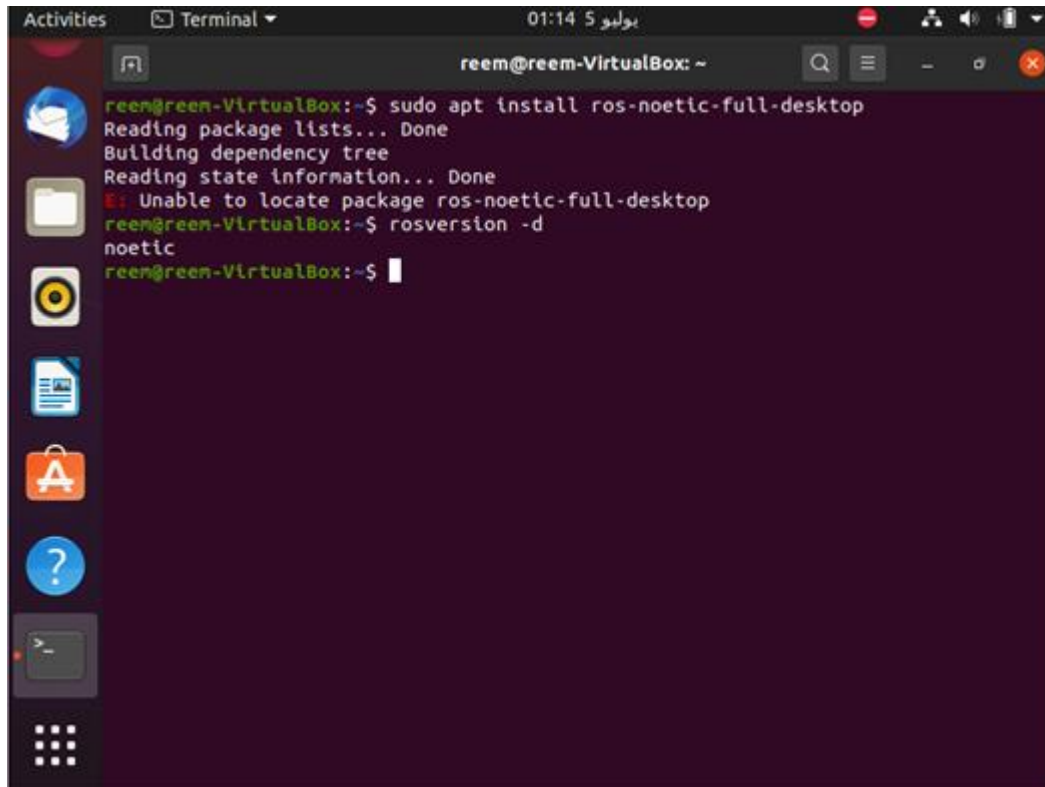
#### Step4: Install Ros Noetic desktop full metapackage on Ubuntu 20.04

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



## Step5: Ensure that the installation is successful

Run `resversion -d`



```
reem@reem-VirtualBox: ~  
reem@reem-VirtualBox:~$ sudo apt install ros-noetic-full-desktop  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
E: Unable to locate package ros-noetic-full-desktop  
reem@reem-VirtualBox:~$ rosversion -d  
noetic  
reem@reem-VirtualBox:~$
```

The image shows a terminal window titled "reem@reem-VirtualBox: ~". The user has executed the command `sudo apt install ros-noetic-full-desktop`, which resulted in an error: `E: Unable to locate package ros-noetic-full-desktop`. Following this, the user ran `rosversion -d`, which returned the output `noetic`. The terminal window includes a sidebar with application icons and a top status bar showing the time as 01:14 and the date as يوليو 5.