



ROS quick installation

Smart Methods Company
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Start now!



Steps before install ROS

1- Download Ubuntu.



2- Download VirtualBox or VMware and use one of them to install Ubuntu and run it

NOW steps to install ROS

1- Open terminal app on Ubuntu to write your codes

* don't worry you won't write, you will just copy and paste

Note: make sure your Ubuntu version work with Ros version.

```
Terminal mt@mt-VirtualBox: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
mt@mt-VirtualBox: ~$
```



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Copy this code then paste the code inside
the terminal window

Note: you have to click right on your mouse to copy and paste. Ubuntu is not windows

Code to install ROS

```
wget -c https://raw.githubusercontent.com/qboticslabs/ros_install_noetic/master/ros_install_noetic.sh  
&& chmod +x ./ros_install_noetic.sh && ./ros_install_noetic.sh
```



mt@mt-VirtualBox: ~



To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

```
mt@mt-VirtualBox:~$ wget -c https://raw.githubusercontent.com/qboticslabs/ros_install_noetic/master/ros_install_noetic.sh && chmod +x ./ros_install_noetic.sh && ./ros_install_noetic.sh
```



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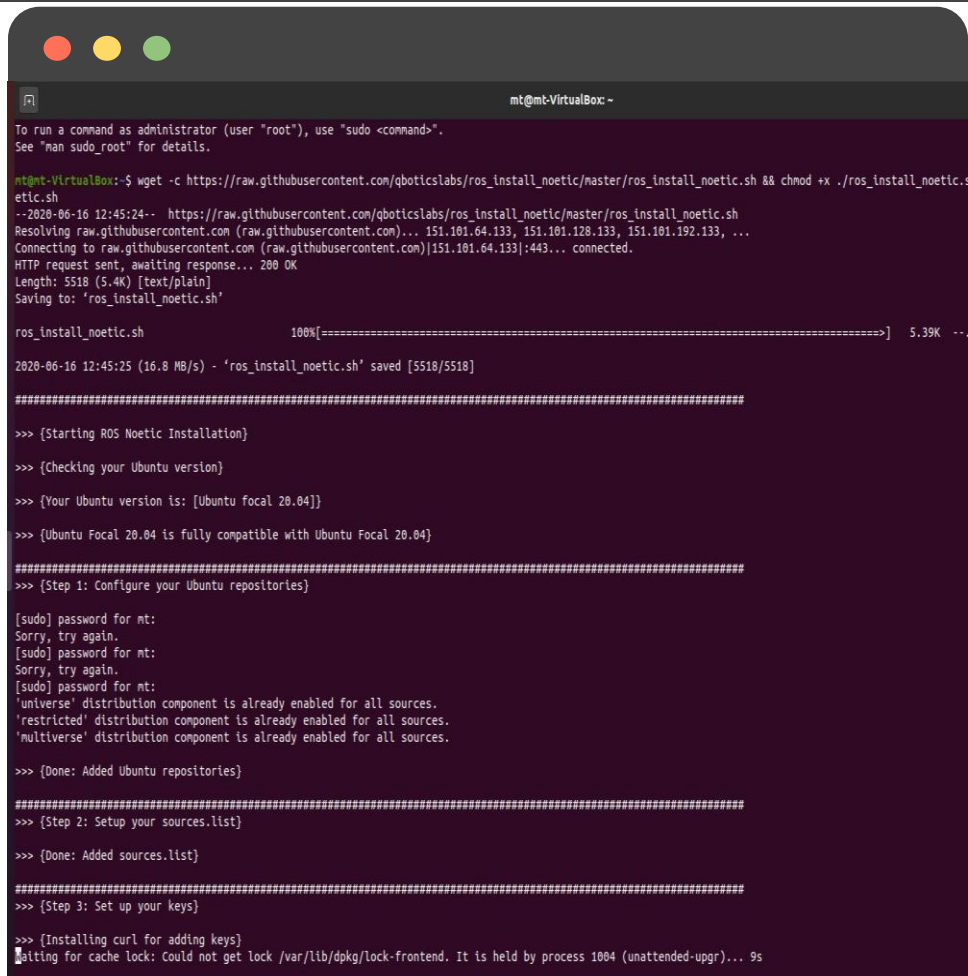
When you paste the code and click on ENTER, will see your terminal like this



After that it will ask you to write your password

Note: when you're writing your password you won't see your password, that's normal, just when you finish writing your password click on ENTER

Also, when it asks you to write Default 1: write 1



```
mt@mt-VirtualBox:~$ wget -c https://raw.githubusercontent.com/qboticslabs/ros_install_noetic/master/ros_install_noetic.sh && chmod +x ./ros_install_noetic.sh
--2020-06-16 12:45:24-- https://raw.githubusercontent.com/qboticslabs/ros_install_noetic/master/ros_install_noetic.sh
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.64.133, 151.101.128.133, 151.101.192.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)[151.101.64.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 5518 (5.4K) [text/plain]
Saving to: 'ros_install_noetic.sh'

ros_install_noetic.sh      100%[=====] 5.39K  ..

2020-06-16 12:45:25 (16.8 MB/s) - 'ros_install_noetic.sh' saved [5518/5518]

#####

>>> {Starting ROS Noetic Installation}

>>> {Checking your Ubuntu version}

>>> {Your Ubuntu version is: [Ubuntu focal 20.04]}

>>> {Ubuntu Focal 20.04 is fully compatible with Ubuntu Focal 20.04}

#####

>>> {Step 1: Configure your Ubuntu repositories}

[sudo] password for mt:
Sorry, try again.
[sudo] password for mt:
Sorry, try again.
[sudo] password for mt:
'universe' distribution component is already enabled for all sources.
'restricted' distribution component is already enabled for all sources.
'multiverse' distribution component is already enabled for all sources.

>>> {Done: Added Ubuntu repositories}

#####

>>> {Step 2: Setup your sources.list}

>>> {Done: Added sources.list}

#####

>>> {Step 3: Set up your keys}

>>> {Installing curl for adding keys}
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontent. It is held by process 1004 (unattended-upgr)... 9s
```



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Congratulations!!!

You finished 99% from install ROS on Ubuntu



Write `rosversion -d` to checking ROS version

Note: if says unknown, just close the terminal and reopen it then rewrite `rosversion -d`

```
mt@mt-VirtualBox: ~  
Setting up ros-noetic-perception-pcl (1.7.1-1focal.20200529.072938) ...  
Setting up ros-noetic-rviz-python-tutorial (0.11.0-1focal.20200529.074228) ...  
Setting up ros-noetic-rqt-rviz (0.6.1-1focal.20200529.074200) ...  
Setting up ros-noetic-laser-assembler (1.7.8-1focal.20200529.070649) ...  
Setting up ros-noetic-rviz-plugin-tutorials (0.11.0-1focal.20200529.074214) ...  
Setting up ros-noetic-rqt-reconfigure (0.5.2-1focal.20200529.065150) ...  
Setting up ros-noetic-rqt-robot-dashboard (0.5.8-1focal.20200602.145444) ...  
Setting up ros-noetic-visualization-tutorials (0.11.0-1focal.20200529.074738) ...  
Setting up ros-noetic-ros-core (1.5.0-1focal.20200529.064752) ...  
Setting up ros-noetic-geometry (1.13.1-1focal.20200529.070642) ...  
Setting up ros-noetic-rqt-srv (0.4.8-1focal.20200529.065443) ...  
Setting up ros-noetic-rqt-action (0.4.9-1focal.20200529.065436) ...  
Setting up ros-noetic-urdf-sim-tutorial (0.5.1-1focal.20200601.142918) ...  
Setting up ros-noetic-gazebo-plugins (2.9.1-1focal.20200529.070922) ...  
Setting up ros-noetic-rqt-launch (0.4.8-1focal.20200529.065134) ...  
Setting up ros-noetic-gazebo-ros-pkgs (2.9.1-1focal.20200529.073057) ...  
Setting up ros-noetic-laser-pipeline (1.6.4-1focal.20200529.071340) ...  
Setting up ros-noetic-ros-base (1.5.0-1focal.20200529.065007) ...  
Setting up ros-noetic-rqt-robot-plugins (0.5.8-1focal.20200602.150731) ...  
Setting up ros-noetic-robot (1.5.0-1focal.20200529.070938) ...  
Setting up ros-noetic-rqt-common-plugins (0.4.9-1focal.20200529.065759) ...  
Setting up ros-noetic-perception (1.5.0-1focal.20200529.073204) ...  
Setting up ros-noetic-viz (1.5.0-1focal.20200602.151318) ...  
Setting up ros-noetic-desktop (1.5.0-1focal.20200602.151713) ...  
Setting up ros-noetic-simulators (1.5.0-1focal.20200602.151315) ...  
Setting up ros-noetic-desktop-full (1.5.0-1focal.20200602.152246) ...  
Processing triggers for libc-bin (2.31-0ubuntu9) ...  
  
#####  
#####  
>>> {Step 6: Setting ROS Environment, This will add ROS environment to .bashrc}  
>>> { After adding this, you can able to access ROS commands in terminal}  
  
#####  
#####  
>>> {Step 7: Testing ROS installation, checking ROS version.}  
  
>>> {Type [ rosversion -d ] to get the current ROS installed version}  
  
#####  
#####
```



Thanks! for your time.

Moteb Alenazi