



Jumana MHMD Algarni

Smart Methods

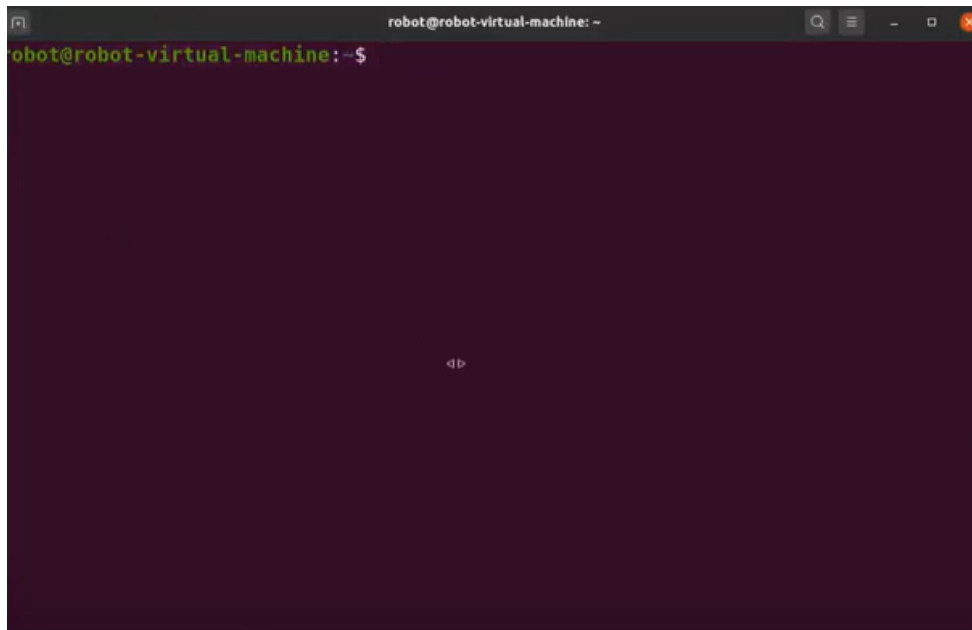
Download ROS Noetic on Ubuntu 20.04

تحميل نظام ROS Noetic على نظام ابونتو 20.04

These steps are valid for both the VirtuaBox OP or as a main OP

الخطوات يمكن تطبيقها سواء على نظام تشغيل افتراضي أو نظام تشغيل أساسي.

I. Open the Terminal



نقوم بفتح ال Terminal

II. Copy and paste the following line, then press Enter

```
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
```

ننسخ و نلصق العبارة
التالية، ثم ننقر على
Enter

```
robot@robot-virtual-machine: ~$ wget -c https://raw.githubusercontent.com/qbotics  
labs/ros_install_noetic/master/ros_install_noetic.sh && chmod +x ./ros_install_n  
oetic.sh && ./ros_install_noetic.sh
```

III. Enter the Password (It will not appear), then press Enter

سيطلب كلمة المرور للنظام، نقوم بإدخالها
- لن تظهر الكلمة على الشاشة- ، ثم ننقر
على Enter

IV. After a while, this line will appear, type 1 then press Enter

```
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease  
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease  
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease  
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease  
Hit:5 http://packages.ros.org/ros/ubuntu focal InRelease  
Hit:6 http://packages.ros.org/ros-testing/ubuntu focal InRelease  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
All packages are up to date.  
  
=====
```

>>> (Step 5: Install ROS, you pick how much of ROS you would like to install.)
[1. Desktop-Full Install: (Recommended) : Everything in Desktop plus 2D/3D
simulators and 2D/3D perception packages]

[2. Desktop Install: Everything in ROS-Base plus tools like rqt and rviz]

[3. ROS-Base: (Bare Bones) ROS packaging, build, and communication libraries
No GUI tools.]

Enter your install (Default is 1):

بعد مدة، سيظهر السطر المشار إليه في
الصورة، نكتب رقم 1 ، ثم ننقر على
Enter

V. After around 20 minutes, the download will finish, and you check if ROS was downloaded successfully by typing “reversion -d, then press Enter.

If “noetic” appears, then the download has done successfully.

بعد ما يقارب 20 دقيقة،
سينتهي التحميل.

و يمكن التأكد من نجاح
التثبيت بكتابة
reversion -d و النقر
على Enter، إذا ظهرت
كلمة noetic، إذا
فالتحميل تم بنجاح.

```
robot@robot-virtual-machine: ~$  
Setting up ros-noetic-viz (1.5.0-1focal.20200522.180626) ...  
Setting up ros-noetic-desktop (1.5.0-1focal.20200522.213153) ...  
Setting up ros-noetic-simulators (1.5.0-1focal.20200522.180621) ...  
Setting up ros-noetic-desktop-full (1.5.0-1focal.20200522.213438) ...  
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}  
  
#####  
robot@robot-virtual-machine:~$ rosversion -d  
noetic
```

Download
finished

Check the status of the download

Below, the resources will be included

<https://www.youtube.com/watch?v=lqrpSi2Xueg>

https://github.com/qboticslabs/ros_install_noetic

THE END 😊