

TUTORIAL 0: INSTALL THE ROBOT OPERATING SYSTEM

THE F1/10 TEAM

If using Ubuntu 16.04 please install ROS Kinetic Kame instead of ROS Indigo. Follow the instructions on the wiki: <http://wiki.ros.org/kinetic/Installation>

INSTALLING ROS INDIGO ON UBUNTU 14.04

This tutorial assumes that the host OS on which ROS Indigo is to be installed is Ubuntu 14.04 LTS. This tutorial offers a very concise walkthrough of the ROS Installation. For a detailed step-by-step explanation of the commands used, please visit the [ROS Indigo Installation page](#).

If you have the Trusty 14.04.2 (use `lsb_release -a` in the terminal to find out) distribution, you might face dependency issues for which it is recommended you visit the link above before beginning the install. The steps listed below install the 'Desktop-Full' ROS Indigo. This means that simulators like Gazebo, rViz along with a large number of ROS packages are installed as well. If your host machine has any constraints regarding memory you should visit the link above to install a trimmed version of ROS Indigo.

Again, this is a very brief guide and if there is any problem at any step please visit the link above.

Execute the following commands/steps in the terminal one after the other.

- Configure Ubuntu repositories to allow for 'multiverse', 'universe' and 'restricted'. (How to : [Configure Repositories](#))
- `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-key adv --keyserver hkp://pool.sks-keyservers.net --recv-key 0xB01FA116`
- `sudo apt-get update`
- `sudo apt-get install ros-indigo-desktop-full`
- `sudo rosdep init`
- `rosdep update`
- `echo "source /opt/ros/indigo/setup.bash" >> ~/.bashrc`
- `source ~/.bashrc`
- `sudo apt-get install python-rosinstall`

You should now have ROS Indigo on your system.

REFERENCES

- [ROS Indigo Installation](#)