Ubuntu18.04 安装 ROS melodic

注:此过程为学习 ROS 理论与实践时个人安装过程记录即问题解决,所参考的安装教程为 古月居博客 https://www.guyuehome.com/19962

1.添加 ROS 软件源

sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu \$(lsb_release -sc)
main" > /etc/apt/sources.list.d/ros-latest.list'

2.添加密钥

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

C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654

Executing: /tmp/apt-key-gpghome.LbxweiyIEy/gpg.1.sh --keyserver hkp://keyserver. ubuntu.com:80 --recv-key C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654 gpg: 密钥 F42ED6FBAB17C654: 公钥"Open Robotics <info@osrfoundation.org>"已导入 gpg: 合计被处理的数量: 1 gpg: 已导入: 1

3.更新,确保之前的软件源的修改获得更新

sudo apt-get update && sudo apt-get upgrade

4.正式安装

sudo apt-get install ros-medolic-desktop-full

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文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
正在设置 ros-melodic-robot (1.4.1-0bionic.20211014.175005) ...
        ros-melodic-gazebo-plugins (2.8.7-1bionic.20210921.213916) ...
正在设置 ros-melodic-interactive-marker-tutorials (0.10.5-1bionic.20210921.21405
4)
        ros-melodic-rviz (1.13.23-1bionic.20211216.180048) ...
        ros-melodic-rqt-rviz (0.7.0-1bionic.20211216.191229) ...
        ros-melodic-rqt-robot-plugins (0.5.7-0bionic.20211216.191914) ...
         ros-melodic-gazebo-ros-pkgs (2.8.7-1bionic.20210921.221119) ...
        ros-melodic-rqt-common-plugins (0.4.8-0bionic.20210921.220636) ...
        ros-melodic-rviz-python-tutorial (0.10.5-1bionic.20211216.191335) ...
        ros-melodic-rviz-plugin-tutorials (0.10.5-1bionic.20211216.191325) ...
        ros-melodic-librviz-tutorial (0.10.5-1bionic.20211216.191128) ...
        ros-melodic-simulators (1.4.1-0bionic.20211216.192002) ...
        ros-melodic-urdf-tutorial (0.4.0-0bionic.20211216.190939) ...
        ros-melodic-urdf-sim-tutorial (0.4.0-0bionic.20211216.191012) ...
正在设置 ros-melodic-viz (1.4.1-0bionic.20211216.192037) ...
正在设置 ros-melodic-visualization-tutorials (0.10.5-1bionic.20211216.191902) ..
正在设置 ros-melodic-desktop (1.4.1-0bionic.20211216.192152) ...
正在设置 ros-melodic-desktop-full (1.4.1-0bionic.2021
        ros-melodic-desktop-full (1.4.1-0bionic.20211216.192238) ...
正在处理用于 libc-bin (2.27-3ubuntu1.4) 的触发器 ...
```

查看安装情况:

cd /opt ls

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yuanxq@yuanxq-Lenovo-TianYi-310-15ISK:~$ cd /opt/
yuanxq@yuanxq-Lenovo-TianYi-310-15ISK:/opt$ ls
ros
```

v = self. sslobj.read(len)

SSLError: ('The read operation timed out',)

yuanxq@yuanxq-Lenovo-TianYi-310-15ISK:~\$ sudo rosdep init sudo: rosdep: 找不到命令

sudo apt-get install python-rosdep 再次初始化: ERROR: Rosdep experienced an error: ('The read operation timed out',) Please go to the rosdep page [1] and file a bug report with the stack trace below. [1]: http://www.ros.org/wiki/rosdep rosdep version: 0.21.0 Traceback (most recent call last): File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 146, in rosdep_main exit code = rosdep main(args) File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 441, in _rosdep_main return no args handler(command, parser, options, args) File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 450, in _no_args_handler return command handlers[command](options) File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 594, in command init data = download_default_sources_list() File "/usr/lib/pvthon2.7/dist-packages/rosdep2/sources list.pv", line 340, in download_default_sources_list f = urlopen(url, timeout=DOWNLOAD_TIMEOUT) File "/usr/lib/python2.7/urllib2.py", line 154, in urlopen return opener.open(url, data, timeout) File "/usr/lib/python2.7/urllib2.py", line 429, in open response = self._open(req, data) File "/usr/lib/python2.7/urllib2.py", line 447, in _open ' open', reg) File "/usr/lib/python2.7/urllib2.py", line 407, in _call_chain result = func(*args) File "/usr/lib/python2.7/urllib2.py", line 1248, in https_open context=self._context) File "/usr/lib/python2.7/urllib2.py", line 1208, in do_open r = h.getresponse(buffering=True) File "/usr/lib/python2.7/httplib.py", line 1178, in getresponse response.begin() File "/usr/lib/python2.7/httplib.py", line 452, in begin version, status, reason = self._read_status() File "/usr/lib/python2.7/httplib.py", line 408, in read status line = self.fp.readline(_MAXLINE + 1) File "/usr/lib/python2.7/socket.py", line 480, in readline data = self. sock.recv(self. rbufsize) File "/usr/lib/python2.7/ssl.py", line 754, in recv return self.read(buflen) File "/usr/lib/python2.7/ssl.py", line 641, in read

执行命令:

sudo apt install rospack-tools

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仍然报错(同上)
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ERROR: Rosdep experienced an error: ('The read operation timed out',)
Please go to the rosdep page [1] and file a bug report with the stack trace belo
[1] : http://www.ros.org/wiki/rosdep
rosdep version: 0.21.0
Traceback (most recent call last):
 File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 146, in rosdep m
ain
    exit code = rosdep main(args)
  File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 441, in rosdep
main
    return _no_args_handler(command, parser, options, args)
  File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 450, in _no_args
 handler
    return command handlers[command](options)
  File "/usr/lib/python2.7/dist-packages/rosdep2/main.py", line 594, in command_
init
   data = download default sources list()
```

参考: https://blog.csdn.net/weixin 53660567/article/details/120607176#comments 18709733

rosdep 初始化及更新成功