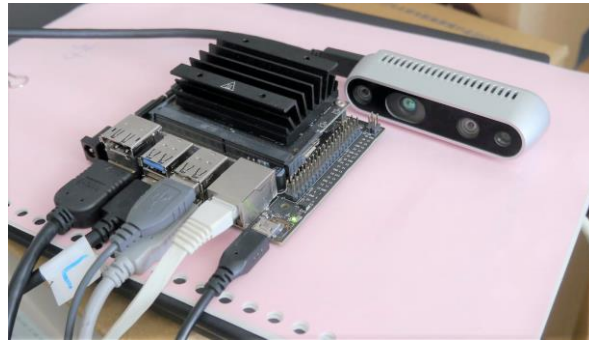


## Using Realsense on Jetson

The RealSense product is made of Vision Processors, Depth and Tracking Modules, and Depth Cameras, supported by an open source, cross-platform SDK, simplifying supporting cameras for third party software developers, system integrators, ODMs and OEMs.

<https://www.intelrealsense.com/>



Jetson Nano and Realsense

### 1. Realsense-viewer

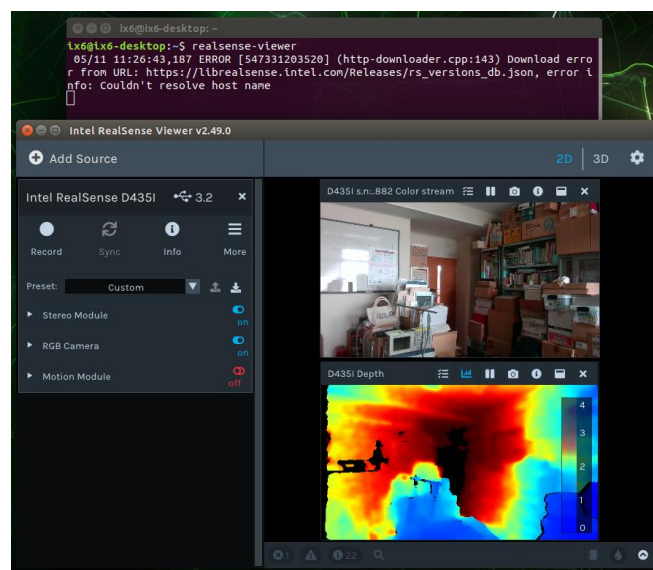
The Realsense-viewer is one of the sample tools for Realsense. This tool can check the operation of Realsense.

\*install RealsenseSDK

Realsense-viewer is included the RealsenseSDK.

Please refer to

[https://github.com/IntelRealSense/librealsense/blob/master/doc/distribution\\_linux.md](https://github.com/IntelRealSense/librealsense/blob/master/doc/distribution_linux.md)  
for installing of RealsenseSDK.



Realsense-viewer

## 2. point-cloud on ROS1\_melodic

\*install ROS1\_melodic

Please refer to

<http://wiki.ros.org/melodic/Installation/Ubuntu>

for installing of ROS.

\*install ROS Wrapper for Intel RealSense Devices

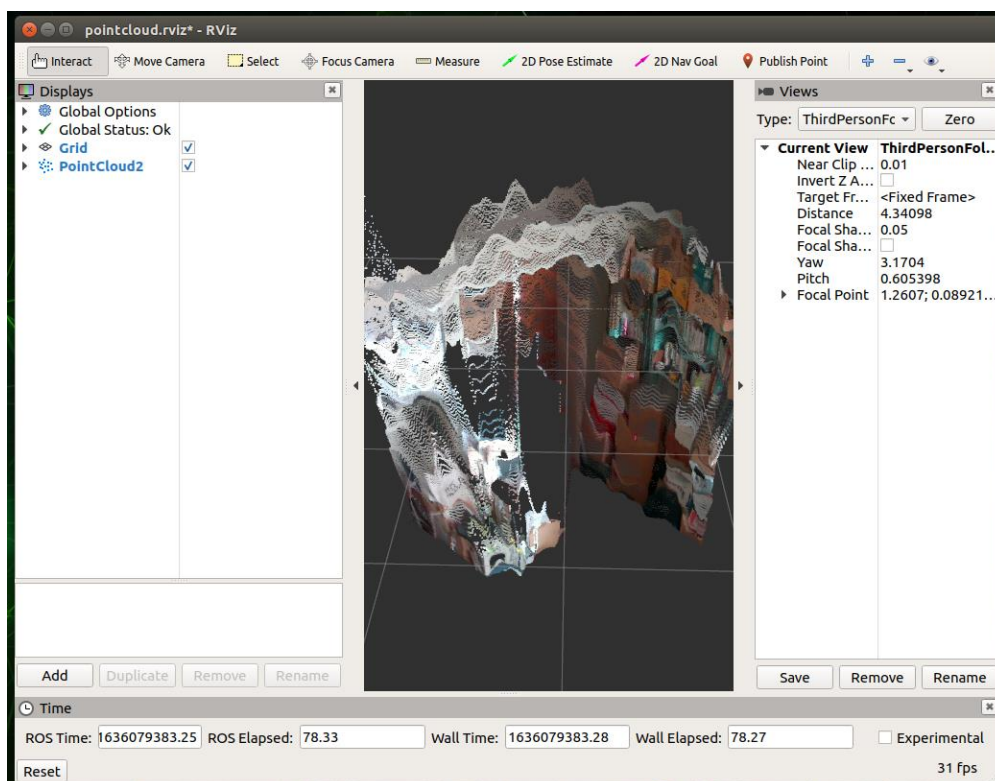
Please refer to

<https://github.com/IntelRealSense/realsense-ros>

for installing of ROS Wrapper

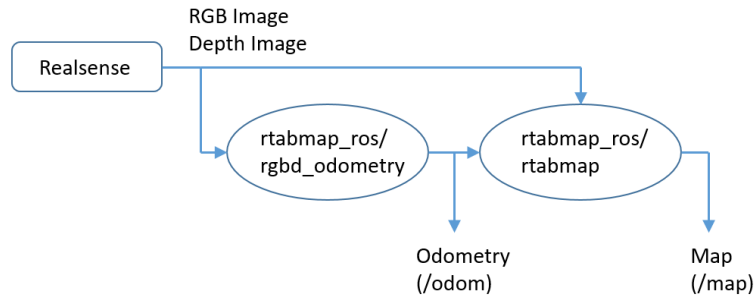
```
ix6@ix6-desktop: ~  
ix6@ix6-desktop:~$ realsense-viewer  
05/11 11:26:43,187 ERROR [547331203520] (http-downloader.cpp:143) Download error from URL: https://librealsense.intel.com/Releases/rs_versions_db.json, error info: Couldn't resolve host name  
ix6@ix6-desktop:~$ source /opt/ros/melodic/setup.bash  
ix6@ix6-desktop:~$ source ./workspace/catkin_ws/devel/setup.bash  
ix6@ix6-desktop:~$
```

Initialize for ROS and catkin app.



### 3. RTAB-Map on ROS1\_melodic

RTAB-Map (Real-Time Appearance-Based Mapping) is a RGB-D, Stereo and Lidar Graph-Based SLAM approach based on an incremental appearance-based loop closure detector.



<http://introlab.github.io/rtabmap/>

[http://wiki.ros.org/rtabmap\\_ros](http://wiki.ros.org/rtabmap_ros)

\*install rtabmap

Please refer to

[https://github.com/introlab/rtabmap\\_ros](https://github.com/introlab/rtabmap_ros)

<https://github.com/IntelRealSense/realsense-ros/wiki/SLAM-with-D435i>

for installing of rtabmap.

