

## 5. Point cloud data viewing

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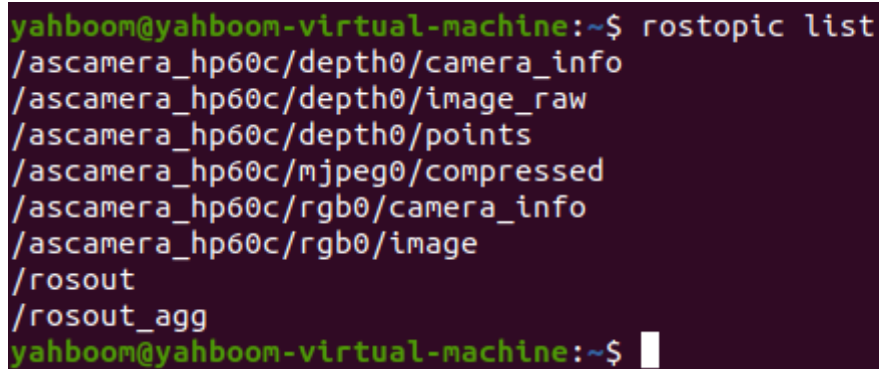
### 5.1、View the depth point cloud

Terminal input,

```
roslaunch ascamera hp60c.launch
```

View the topic data,

```
rostopic list
```

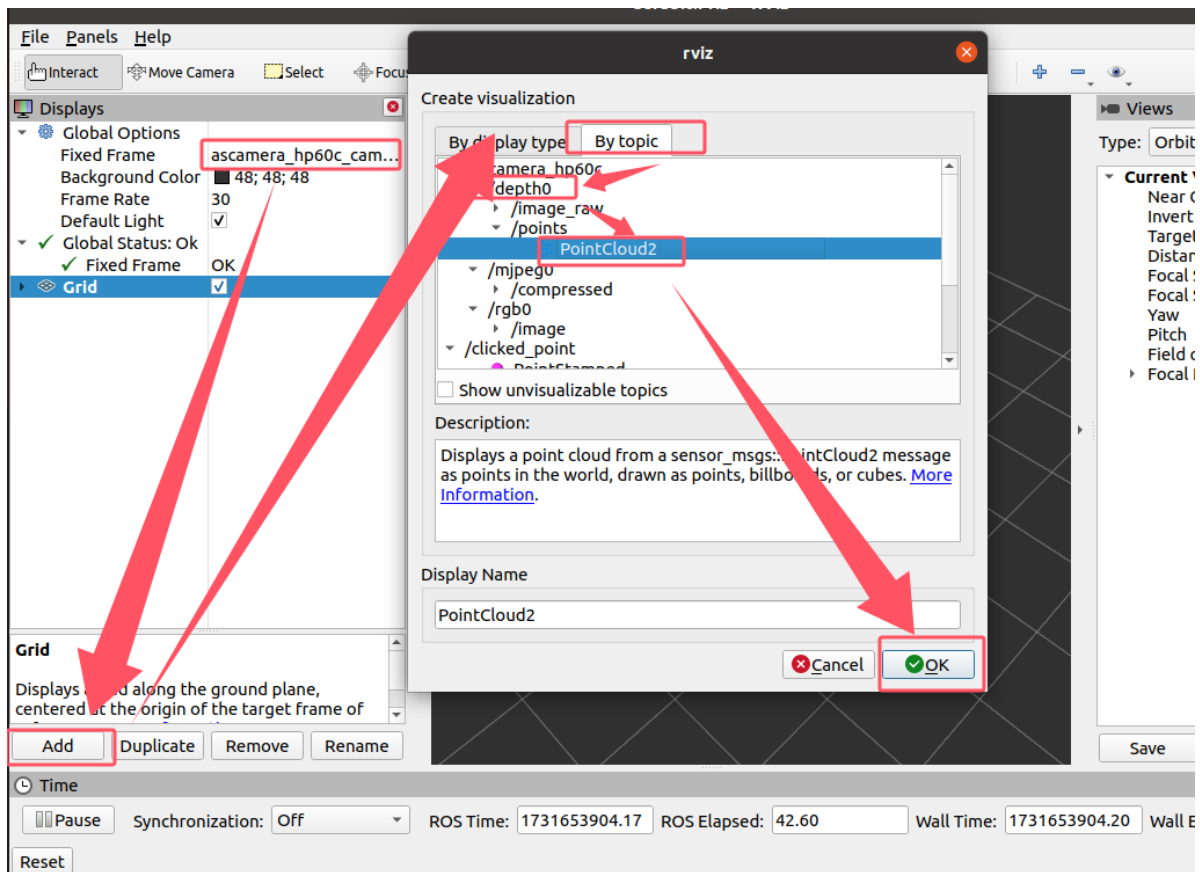
A terminal window with a dark purple background. The prompt is 'yahboom@yahboom-virtual-machine:~\$'. The command 'rostopic list' has been entered, and the output is a list of ROS topics: '/ascamera\_hp60c/depth0/camera\_info', '/ascamera\_hp60c/depth0/image\_raw', '/ascamera\_hp60c/depth0/points', '/ascamera\_hp60c/mjpeg0/compressed', '/ascamera\_hp60c/rgb0/camera\_info', '/ascamera\_hp60c/rgb0/image', '/rosout', and '/rosout\_agg'. The prompt is now 'yahboom@yahboom-virtual-machine:~\$' with a cursor.

```
yahboom@yahboom-virtual-machine:~$ rostopic list
/ascamera_hp60c/depth0/camera_info
/ascamera_hp60c/depth0/image_raw
/ascamera_hp60c/depth0/points
/ascamera_hp60c/mjpeg0/compressed
/ascamera_hp60c/rgb0/camera_info
/ascamera_hp60c/rgb0/image
/rosout
/rosout_agg
yahboom@yahboom-virtual-machine:~$
```

As shown in the figure above, the topic name of the depth point cloud is: /camera/depth/points, open rviz to view the point cloud,

```
rviz
```

After opening, set it as shown in the figure below, change the Fixed Frame under Global Options to ascamera\_hp60c\_camera\_link\_0, then click [Add], select [By topic], select **/depth0/points/PointCloud2**, and click OK to complete the setting.



The displayed point cloud is as follows,

