

# Ged: User's Manual

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## Introduction

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See [Statement of work](#)

## Installation

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On a fresh Ubuntu 16.04 installation (*MATE* edition recommended), open a terminal window and type:

```
apt-get install ros-kinetic-fulldesktop
git clone orga.batlle.com.ar:8001:Ekumen/challenge
cd challenge
./ged_pkg install
```

The package **Ged** should be part of your ROS installation.

### testing the installation

- ☐ logout and in again (in order to have the new enviromental variables in place).
- ☐ On a terminal window type:

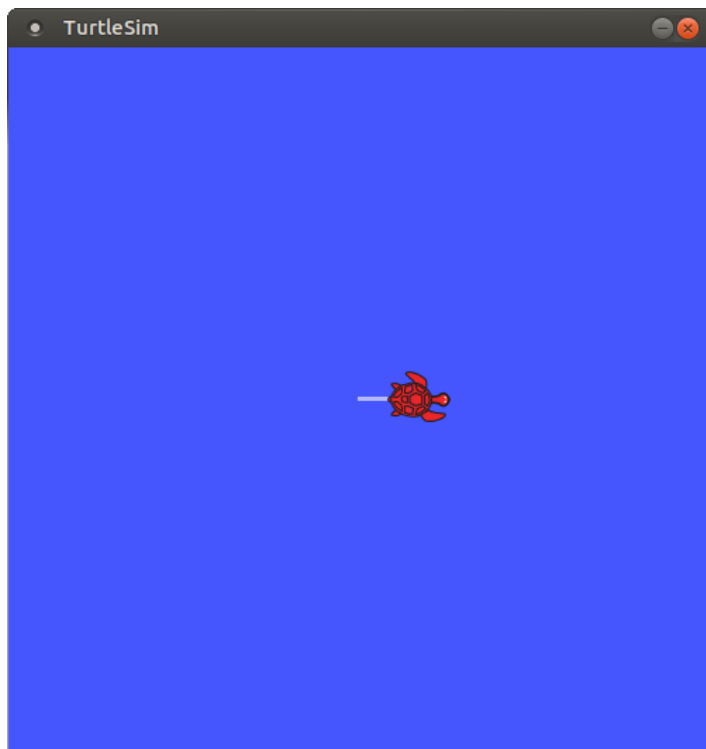
```
roslaunch ged ged.launch
```

A TurtleSim window should popup.

- ☐ On a *new* terminal window type:

```
roslaunch ged ged_client.py
```

The icon in the TurtleSim window should move a bit:



note: robot's icon might differ

- ☐ Shutdown the testing nodes by pressing CTRL-C in the first terminal window.

## Troubleshooting

- ☐ If previous launched process are still running terminate them.
- ☐ repeat the "*roslaunch ...*" step with the **-v** modifier. This is an example of a normal output:

```
$ roslaunch -v ged ged.launch
... logging to roslaunch-LinuxUM1604-17347.log
Checking log directory for disk usage. This may take awhile.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

... loading XML file [/opt/ros/kinetic/etc/ros/roscore.xml]
... executing command param [rosversion roslaunch]
Added parameter [/rosversion]
... executing command param [rosversion -d]
Added parameter [/rostdistro]
Added core node of type [rosout/rosout] in namespace [/]
... loading XML file [/opt/ros/kinetic/share/ged/launch/ged.launch]
Added parameter [/ged/turtlesim_node/speed/default]
Added node of type [turtlesim/turtlesim_node] in namespace [/ged/]
Added node of type [ged/ged_server.py] in namespace [/ged/]
started roslaunch server http://LinuxUM1604:45253/

SUMMARY
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PARAMETERS
* /ged/turtlesim_node/speed/default: 3.0
* /rostdistro: kinetic
* /rosversion: 1.12.7

NODES
  /ged/
    ged_server_py (ged/ged_server.py)
    turtlesim_node (turtlesim/turtlesim_node)

auto-starting new master
process[master]: started with pid [17358]
ROS_MASTER_URI=http://localhost:11311

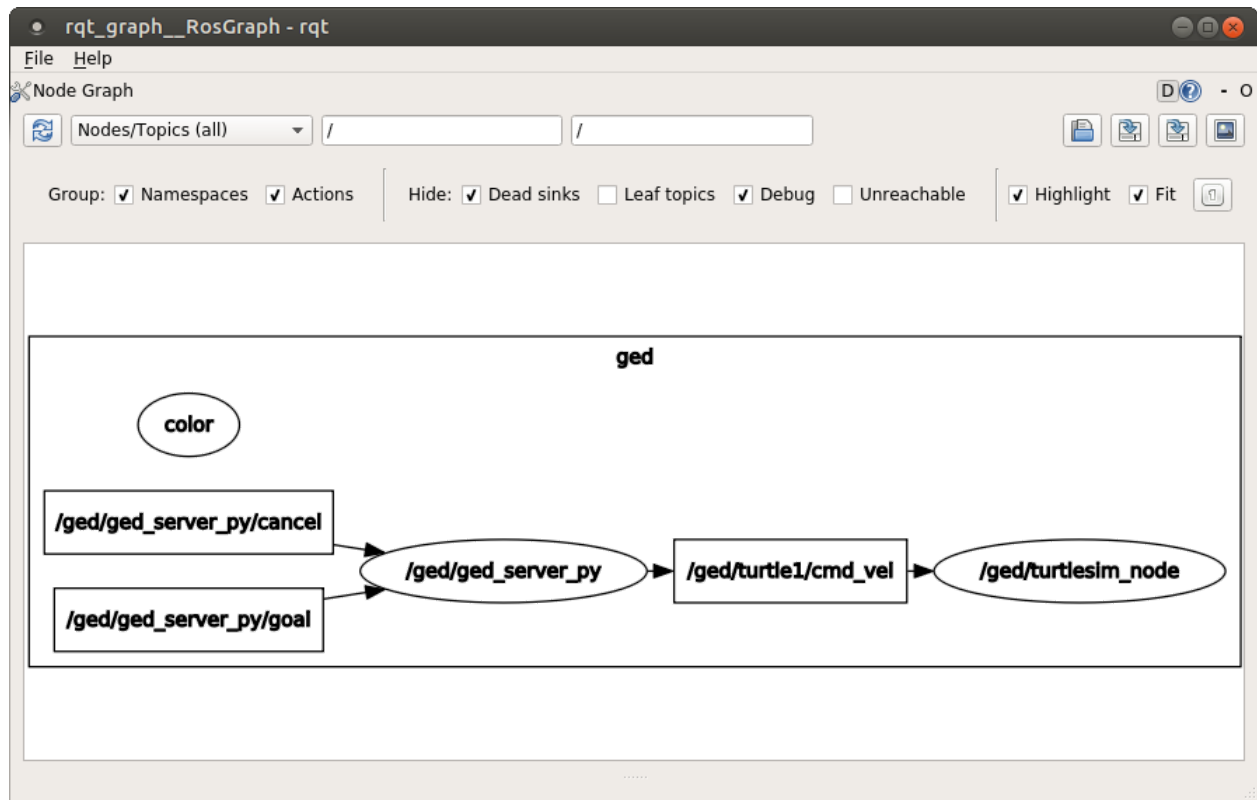
setting /run_id to 48111368-a80d-11e7-bd2d-080027c3860e
process[rosout-1]: started with pid [17371]
started core service [/rosout]
```

```
process[ged/turtlesim_node-2]: started with pid [17375]
process[ged/ged_server_py-3]: started with pid [17385]
```

☐ run `rqt_graph`

```
$ rqt_graph
```

The nodes in place should be:



note: please, mind the ticks in the "Group" and "Hide" boxes.

## Usage

### How to run Ged

☐ Run the server nodes. On a *new* terminal window type:

```
roslaunch ged ged.launch
```

A TurtleSim window should popup. Otherwise, refer to the Troubleshooting section of this manual.

## Uninstall

On a terminal window, `cd` to the download directory and type:

```
./ged_pkg remove_pkg
```