

## LAB3:DOL 实例分析&编程

### 1.2:

```
elias@14353319wy:~$ sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'
```

### 1.3:

```
elias@14353319wy:~$ sudo apt-key adv --keyserver hkp://ha.pool.sks-keyservers.net:80 --recv-key 0xB01FA116
Executing: gpg --ignore-time-conflict --no-options --no-default-keyring --homedir /tmp/tmp.J50nHbz0Sd --no-auto-check-trustdb --trust-model always --keyring /etc/apt/trusted.gpg --primary-keyring /etc/apt/trusted.gpg --keyserver hkp://ha.pool.sks-keyservers.net:80 --recv-key 0xB01FA116
gpg: requesting key B01FA116 from hkp server ha.pool.sks-keyservers.net
gpg: key B01FA116: public key "ROS Builder <rosbuild@ros.org>" imported
gpg: Total number processed: 1
```

### 1.4:

```
elias@14353319wy:~$ sudo apt-get update
Hit http://us.archive.ubuntu.com wily InRelease
Hit http://security.ubuntu.com wily-security InRelease
Hit http://us.archive.ubuntu.com wily-updates InRelease
Hit http://us.archive.ubuntu.com wily-backports InRelease
Get:1 http://packages.ros.org wily InRelease [4,005 B]
Hit http://security.ubuntu.com wily-security/main Sources
Hit http://us.archive.ubuntu.com wily/main Sources
Get:2 http://packages.ros.org wily/main amd64 Packages [228 kB]
Hit http://security.ubuntu.com wily-security/restricted Sources
Hit http://us.archive.ubuntu.com wily/restricted Sources
Hit http://us.archive.ubuntu.com wily/universe Sources
Hit http://security.ubuntu.com wily-security/universe Sources
Hit http://us.archive.ubuntu.com wily/multiverse Sources
Hit http://security.ubuntu.com wily-security/multiverse Sources
Hit http://us.archive.ubuntu.com wily/main amd64 Packages
Hit http://security.ubuntu.com wily-security/main amd64 Packages
Hit http://us.archive.ubuntu.com wily/restricted amd64 Packages
Get:3 http://packages.ros.org wily/main i386 Packages [228 kB]
```

```

Reading package lists... Done
elias@14353319wy:~$ sudo apt-get install ros-kinetic-desktop-full
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  binfmt-support blt bzip2-doc cmake cmake-data collada-dom-dev
  collada-dom2.4-dp-base collada-dom2.4-dp-dev comerr-dev debhelper
  docutils-common docutils-doc fltk1.3-doc fluid fonts-lyx freeglut3
  freeglut3-dev gazebo7 gazebo7-common gazebo7-plugin-base gir1.2-gtk-2.0
  graphviz hddtemp hdf5-helpers i965-va-driver icu-devtools javascript-common
  krb5-multidev libaacs0 libapr1 libapr1-dev libaprutil1 libaprutil1-dev
  libarmadillo5 libarpack2 libassimp-dev libassimp3v5 libatk1.0-dev
  libavcodec-dev libavcodec-ffmpeg56 libavformat-dev libavformat-ffmpeg56
  libavutil-dev libavutil-ffmpeg54 libbdplus0 libblas-common libblas-dev
  libblas3 libbluray1 libboost-all-dev libboost-atomic-dev
  libboost-atomic1.58-dev libboost-atomic1.58.0 libboost-chrono-dev
  libboost-chrono1.58-dev libboost-chrono1.58.0 libboost-context-dev
  libboost-context1.58-dev libboost-context1.58.0 libboost-coroutine-dev
  libboost-coroutine1.58-dev libboost-date-time-dev libboost-date-time1.58-dev
  libboost-dev libboost-exception-dev libboost-exception1.58-dev
  libboost-filesystem-dev libboost-filesystem1.58-dev libboost-graph-dev
  libboost-graph-parallel-dev libboost-graph-parallel1.58-dev
  libboost-graph-parallel1.58.0 libboost-graph1.58-dev libboost-graph1.58.0

```

### 1.5:

```

elias@14353319wy:~$ sudo rosdep init
[sudo] password for elias:
Wrote /etc/ros/rosdep/sources.list.d/20-default.list
Recommended: please run

    rosdep update

elias@14353319wy:~$ rosdep update
reading in sources list data from /etc/ros/rosdep/sources.list.d
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/osx-homebrew.
aml
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/base.yaml
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/python.yaml
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/ruby.yaml
Hit https://raw.githubusercontent.com/ros/rosdistro/master/releases/fuerte.yaml
Query rosdistro index https://raw.githubusercontent.com/ros/rosdistro/master/in
ex.yaml
Add distro "groovy"
Add distro "hydro"
Add distro "indigo"
Add distro "jade"
Add distro "kinetic"
updated cache in /home/elias/.ros/rosdep/sources.cache

```

### 1.6:

```

elias@14353319wy:~$ echo "source /opt/ros/kinetic/setup.bash" >> ~/.bashrc
elias@14353319wy:~$ source ~/.bashrc

```

### 1.7:

if unable to locate package python-rosinstall

```
elias@14353319wy:~$ sudo apt-get install python-rosinstall
```

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following extra packages will be installed:

bzr libjs-excanvas libserf-1-1 libsvn1 mercurial mercurial-common  
python-bzrlib python-configobj python-gpgme python-keyring  
python-launchpadlib python-lazr.restfulclient python-lazr.uri python-oauth  
python-secretstorage python-simplejson python-vcstools python-wadllib  
python-wstool subversion