

Installation of Ubuntu on Skylab VM;s

The VM's Fetcher and Sylab ROS master have ROS installed. Run these commands on Ubuntu 16.04 to install ROS Kinetic ready to run.

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

```
sudo apt-key adv --keyserver hkp://ha.pool.sks-keyservers.net:80 --recv-key
421C365BD9FF1F717815A3895523BAEEB01FA116
```

```
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-key
421C365BD9FF1F717815A3895523BAEEB01FA116
```

```
sudo apt-get update
```

```
sudo apt-get install ros-kinetic-desktop-full
```

```
apt-cache search ros-kinetic
```

```
sudo rosdep init
```

```
rosdep update
```

```
echo "source /opt/ros/kinetic/setup.bash" >> ~/.bashrc
```

```
source ~/.bashrc
```

```
sudo apt-get install python-rosinstall python-rosinstall-generator python-wstool
build-essential
```

```
mkdir -p ~/catkin_ws/src
```

```
cd ~/catkin_ws/
```

```
catkin_make
```

```
source devel/setup.bash
```

reference: <http://wiki.ros.org/kinetic/Installation/Ubuntu>