# Linux Installation Instructions

The minimum requirements are:

* python 2.7, 3.5, or 3.6 (support for 3.7 pending #788)
* glibc >= 2.10 (Centos >= 6, Ubuntu >= 9.10, or equivalent)
* For Neural Network support, glibc >= 2.17 is needed (Centos >= 7, Ubuntu >= 13.04, or equivalent)
* libstdc++ >= 6.0.19 (Ubuntu >= 14.04 or equivalent, or GCC 4.8.3 or later)
* libgconf-2-4 (on Ubuntu 17.10 and later)

## Ubuntu

### Ubuntu >= 17.10

Follow the instructions for Ubuntu >= 14.04, but also install libgconf-2-4. This was previously included in desktop Ubuntu distributions but now needs to be installed separately starting with 17.10.

### Ubuntu >= 14.04

On recent versions of Ubuntu, we just need a few dependencies

sudo apt-get install -y libstdc++6 python-setuptools

sudo easy\_install pip

sudo pip install virtualenv

To avoid making system changes, we are going to do everything in a virtualenv

cd $HOME

virtualenv venv

Activate the virtualenv

cd venv

source bin/activate

Install turicreate

pip install --upgrade pip

pip install turicreate

### Ubuntu < 14.04

(Tested on Ubuntu 12.04)

Compiling gcc from source is necessary here. You can download any version of gcc >= 5 from [https://gcc.gnu.org](https://gcc.gnu.org/)

sudo apt-get install gcc g++

cd ~

wget https://mirrors-usa.go-parts.com/gcc/releases/gcc-7.2.0/gcc-7.2.0.tar.gz

tar -xzvf gcc-7.2.0.tar.gz

cd gcc-7.2.0

contrib/download\_prerequisites

./configure --disable-multilib --enable-languages=c,c++ --disable-bootstrap

make

sudo make install

Every time you open a new bash session, you should run the following commands. You could put them in ~/.bashrc for convenience.

export LD\_LIBRARY\_PATH=/usr/local/lib64:$LD\_LIBRARY\_PATH

To avoid making system changes, we are going to do everything in a virtualenv

cd $HOME

virtualenv venv

Activate the virtualenv

cd venv

source bin/activate

Install turicreate

pip install --upgrade pip

pip install turicreate