To install OpenMPI on your Linux, simply follow these steps:

- 1. Go to http://www.open-mpi.org and download the latest .tar.gz package. Latest version is openmpi-3.0.0.tar.gz .
- 2. Create a directory to install **OpenMPI**:

```
$ mkdir $HOME/openmpi
```

3. Copy the downloaded file on step 1 into the directory you just created and then go into that directory using following commands:

```
$ cp $HOME/Downloads/openmpi-1.10.0.tar.gz $HOME/openmpi $ cd $HOME/openmpi
```

4. Extract the package:

```
$ tar -xzvf openmpi-1.10.0.tar.gz
```

5. Go into the extracted directory:

```
$ cd openmpi-1.10.0
```

6. Configure (note: "--prefix=" determines where to install OpenMPI):

```
$ ./configure --prefix=$HOME/openmpi
```

7. Compile (this step may take about 10-15 minutes):

```
$ make all
```

8. Finally install using the following command:

```
$ make install
```

Now you have installed OpenMPI in \$HOME/openmpi.

Simply add OpenMPI to your PATH and LD_LIBRARY_PATH environment variable and start using it.

For bash add the following two lines to your .bashrc to add OpenMPI to your PATH and LD_LIBRARY_PATH environment variable:

```
export PATH=$PATH:$HOME/openmpi/bin export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$HOME/openmpi/lib
```

For **C** shell add the following two lines to your .cshrc to add OpenMPI to your PATH and LD_LIBRARY_PATH environment variable:

```
setenv PATH ${PATH}:$HOME/openmpi/bin setenv LD_LIBRARY_PATH ${LD_LIBRARY_PATH}:$HOME/openmpi/lib
```

Additional tips:

If you want to build OpenMPI as a static library, you need to add the --enable-static to the configure command in step 6 above as follows:

```
$ ./configure --enable-static --prefix=$HOME/openmpi
```

If you are only interested to have the static libraries, you can simply disable building the shared libraries while enabling building static libraries as follows:

```
$ ./configure --enable-static --disable-shared --prefix=$HOME/openmpi
```

Support of PBS Pro, Open PBS, and Torque can be explicitly requested with the command line switch "--with-tm=/path/to/pbs_or_torque/installation/folder" while configuring.

 $\$./configure - with-tm = /path/to/pbs_or_torque/installation --prefix = \$HOME/openmpi$