

OSCAD Installation instructions:

1) Download OSCAD Software and Examples from <http://oscad.net/downloads/>

- Open web browser (e.g., firefox)
- Open website <http://oscad.net/downloads> .
- Click on http://oscad.net/download/OSCAD_installer.tgz. Select “Open With” and Press OK. Then click on Extract. One window will open, select destination as 'Downloads' folder and click “Extract” again. This will extract OSCAD_installer in 'Downloads' folder.
- Click on <http://oscad.net/download/Examples.tgz>. Select “Open With” and Press OK. Then click on Extract. One window will open, select destination as 'Downloads' folder and click “Extract” again. This will extract examples in 'Downloads' folder.

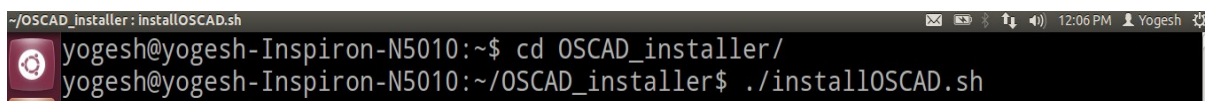
2) Please download scilab 5.4.0 for 32 or 64 bits (Linux) from <http://www.scilab.org/products/scilab/download>

- Open web browser (e.g., firefox)
- Open website <http://www.scilab.org/products/scilab/download> .
- Click on [Scilab 5.4.0 for 64 bits](#) or [Scilab 5.4.0 for 32 bits](#) (to check whether your machine is 32 bits or 64 bits, in terminal, enter command “uname -m”. If output is i686 then it is 32 bits machine. If output is x86_64 then your machine is 64 bits) under Linux section.
- Save it to 'Downloads' folder.
- Open Downloads folder
- Double click on scilab-5.4.0.bin.linux-x86_64.tar.gz or scilab-5.4.0.bin.linux-i686.tar.gz.
- Then click on Extract. One window will open, select destination as 'Downloads' folder and click “Extract” again. This will create scilab-5.4.0

3) Start Installation of OSCAD using terminal window

- Open terminal
- Change directory to OSCAD_installer i.e., Type “cd Downloads/OSCAD_installer” in the terminal command prompt
- Run installOSCAD.sh i.e., Type “./installOSCAD.sh” in the terminal command prompt.
- Go to step 3

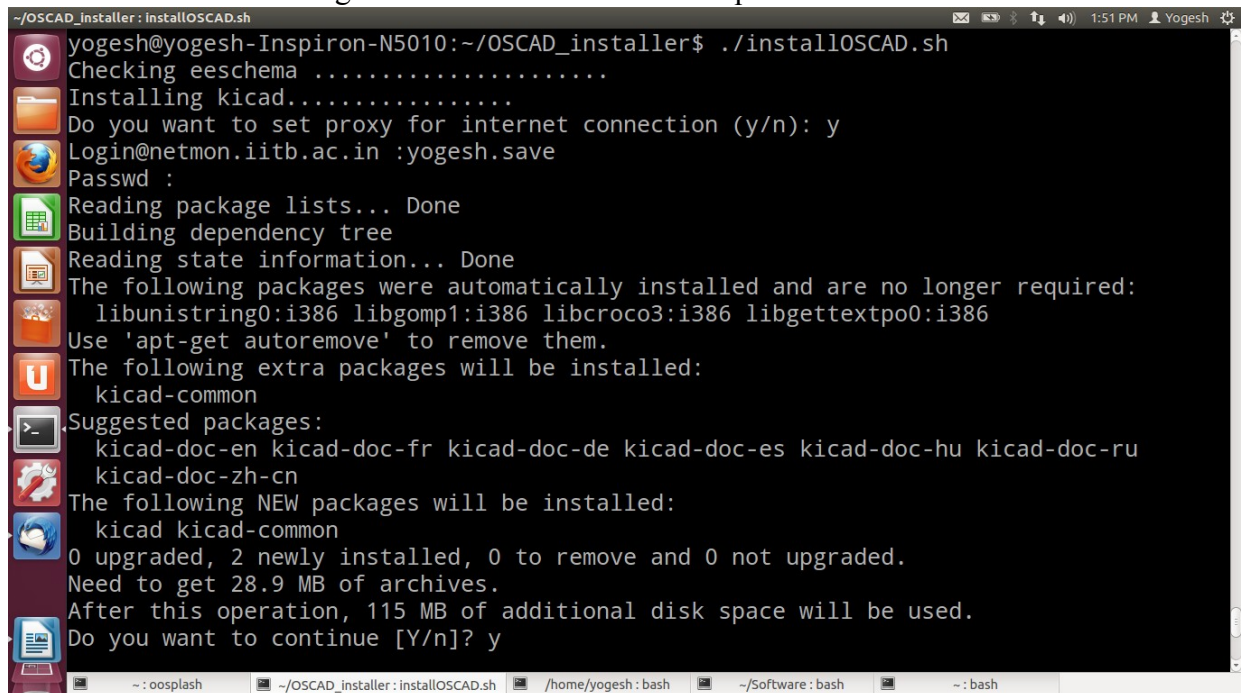
Figure 1-- Start Installation of OSCAD using terminal window



4) Installation of Pre-requisite softwares (Kicad, ngspice and python)

- If some pre-requisite softwares are not installed, installation script will install it.
- Let us assume Kicad is not installed then you have to do following things:
 - If you are connecting internet via proxy then press 'y' when “Do you want to set proxy for internet connection (y/n): ” message come otherwise press 'n'.
 - Enter password your login password when message “[sudo] password for username:” is displayed.
 - If you press 'y' to set proxy for internet connection, it will ask for your proxy information Please enter username and password of internet proxy.
 - Next message will be “Do you want to continue [Y/n]?” Press 'y'
- Now Kicad is installed on your computer.
- Similarly install ngspice and python.
- Go to step 5

Figure 2 -- Installation of Pre-requisite softwares

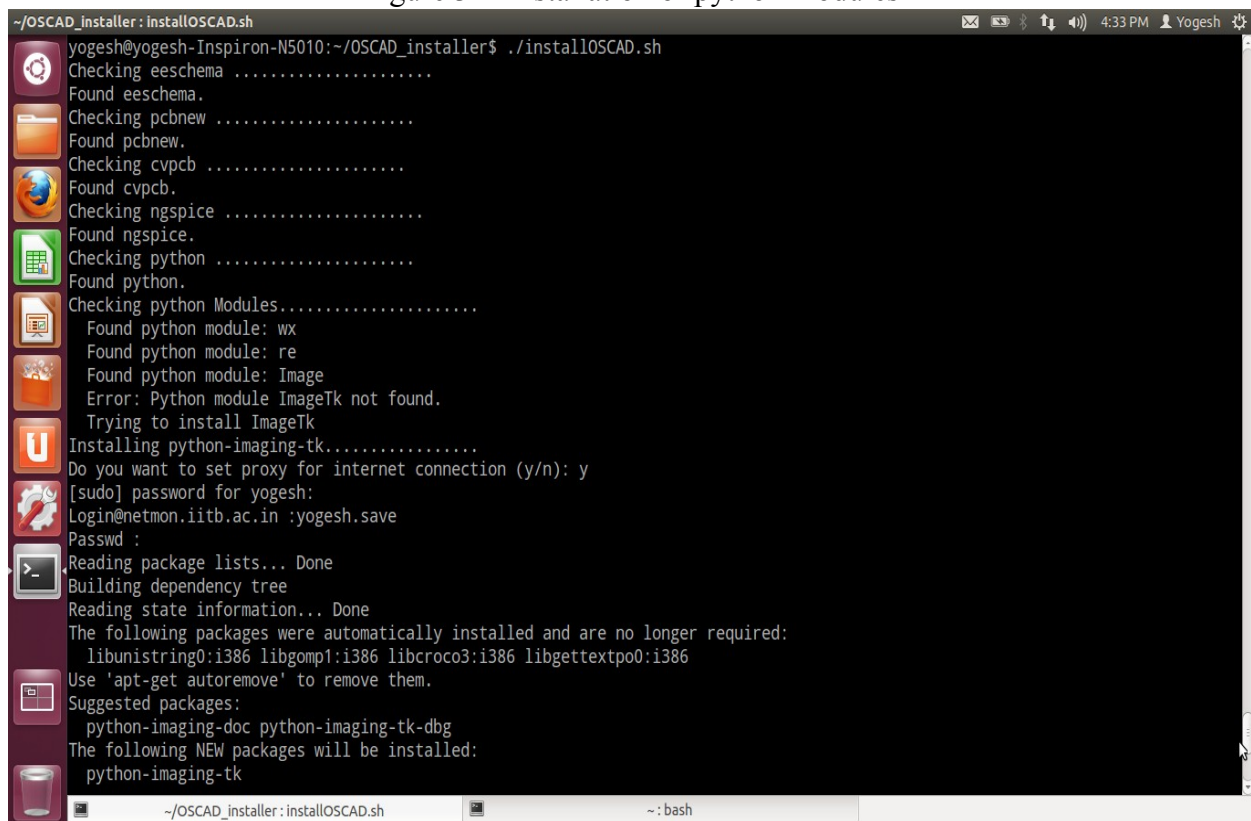


```
~/OSCAD_installer: installOSCAD.sh
yogesh@yogesh-Inspiron-N5010:~/OSCAD_installer$ ./installOSCAD.sh
Checking eeschema .....
Installing kicad.....
Do you want to set proxy for internet connection (y/n): y
Login@netmon.iitb.ac.in :yogesh.save
Passwd :
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libunistring0:i386 libgomp1:i386 libcrococo3:i386 libgettextpo0:i386
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  kicad-common
Suggested packages:
  kicad-doc-en kicad-doc-fr kicad-doc-de kicad-doc-es kicad-doc-hu kicad-doc-ru
  kicad-doc-zh-cn
The following NEW packages will be installed:
  kicad kicad-common
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 28.9 MB of archives.
After this operation, 115 MB of additional disk space will be used.
Do you want to continue [Y/n]? y
```

5) Installation of python modules

- If some pre-requisite python are not installed, installation script will install it.
- Let us assume python-imaging-tk is not installed then you have to do following things:
 - If you are connecting internet via proxy then press 'y' when “Do you want to set proxy for internet connection (y/n): ” message come otherwise press 'n'.
 - Enter password your login password when message “[sudo] password for username:” is displayed.
 - If you press 'y' to set proxy for internet connection, it will ask for your proxy information Please enter username and password of internet proxy.
- Now python-imaging-tk is installed on your computer.
- Similarly install other python modules.
- If there is an error in this step, please refer to solution given at the end of the document.

Figure 3 -- Installation of python modules

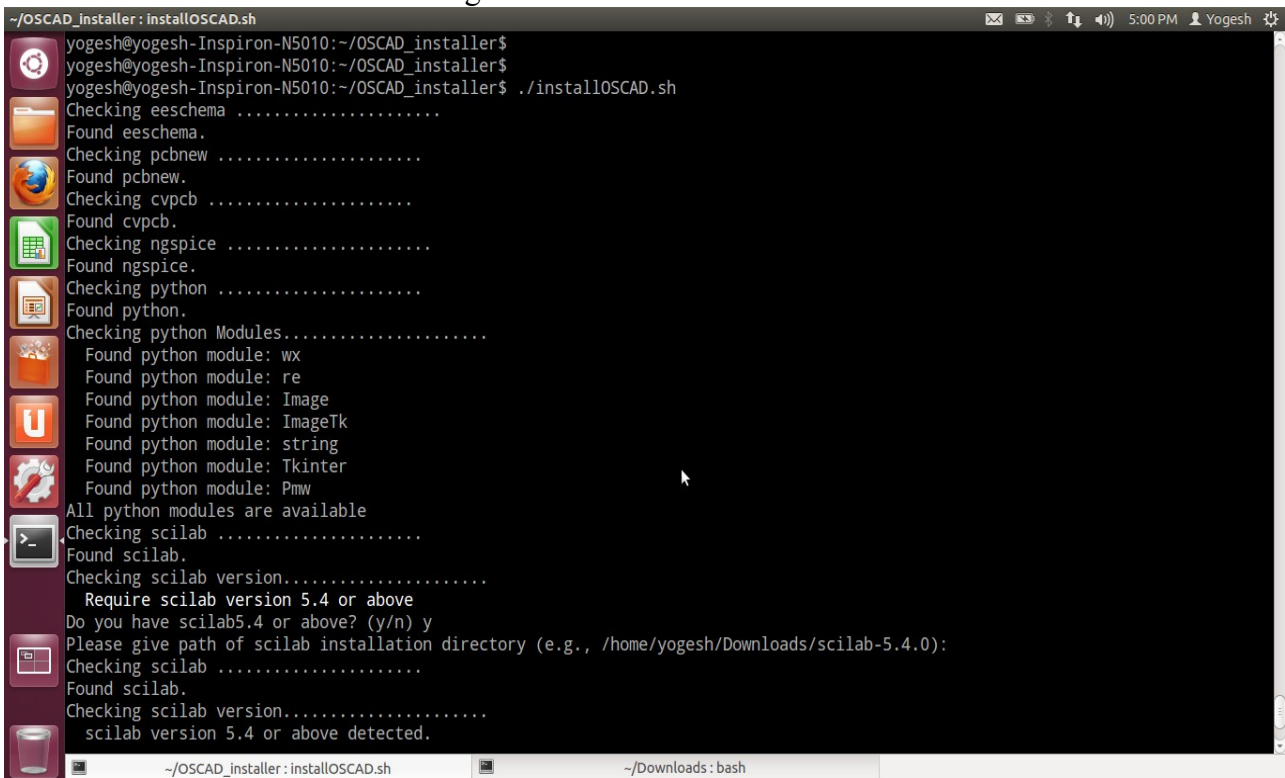


```
~/OSCAD_installer: installOSCAD.sh
yogesh@yogesh-Inspiron-N5010:~/OSCAD_installer$ ./installOSCAD.sh
Checking eeschema .....
Found eeschema.
Checking pcbnew .....
Found pcbnew.
Checking cvpcb .....
Found cvpcb.
Checking ngspice .....
Found ngspice.
Checking python .....
Found python.
Checking python Modules.....
Found python module: wx
Found python module: re
Found python module: Image
Error: Python module ImageTk not found.
Trying to install ImageTk
Installing python-imaging-tk.....
Do you want to set proxy for internet connection (y/n): y
[sudo] password for yogesh:
Login@netmon.iitb.ac.in :yogesh.save
Passwd :
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libunistring0:i386 libgomp1:i386 libcroc03:i386 libgettextpo0:i386
Use 'apt-get autoremove' to remove them.
Suggested packages:
  python-imaging-doc python-imaging-tk-dbg
The following NEW packages will be installed:
  python-imaging-tk
```

6) Installation of Scilab:

- Press 'y' when message “Do you have scilab5.4 or above? (y/n) “ is displayed.
- If scilab is installed at “Downloads/scilab-5.4.0”, press enter when the message “Please give path of scilab installation directory (e.g., /home/username/Downloads/scilab-5.4.0):” is displayed. Otherwise give complete path of scilab-5.4.x software.
- This will link scilab-5.4.0 to OSCAD

Figure 4 – Installation of Scilab.



```
~/OSCAD_installer: installOSCAD.sh
yogesh@yogesh-Inspiron-N5010:~/OSCAD_installer$
yogesh@yogesh-Inspiron-N5010:~/OSCAD_installer$ ./installOSCAD.sh
Checking eeschema .....
Found eeschema.
Checking pcbnew .....
Found pcbnew.
Checking cvpcb .....
Found cvpcb.
Checking ngspice .....
Found ngspice.
Checking python .....
Found python.
Checking python Modules.....
Found python module: wx
Found python module: re
Found python module: Image
Found python module: ImageTk
Found python module: string
Found python module: Tkinter
Found python module: Pmw
All python modules are available
Checking scilab .....
Found scilab.
Checking scilab version.....
Require scilab version 5.4 or above
Do you have scilab5.4 or above? (y/n) y
Please give path of scilab installation directory (e.g., /home/yogesh/Downloads/scilab-5.4.0):
Checking scilab .....
Found scilab.
Checking scilab version.....
scilab version 5.4 or above detected.
```

7) Metanet – Graph library installation.

- If you are connecting internet via proxy then press 'y' when “Do you want to set proxy for internet connection (y/n): ” message come otherwise press 'n'.
- If you press 'y' to set proxy for internet connection, it will ask for your proxy information Please enter username and password of internet proxy.
- Now metanet graph library is installed in scilab-5.4.0.

8) Select Installation directory

- Press Enter if you want to install OSCAD in your home directory when message “Please select installation directory (e.g., /home/(username)): ” is displayed. If you want to install in some other place, enter complete path.
- Enter your login password to complete installation.

Figure 5 – Metanet Graph library installation

```
~/OSCAD_installer: bash
Do you have scilab5.4 or above? (y/n) y
Please give path of scilab installation directory (e.g., /home/yogesh/Downloads/sci
lab-5.4.0):
Checking scilab .....
Found scilab.
Checking scilab version.....
scilab version 5.4 or above detected.
Checking Metanet .....

Startup execution:
loading initial environment

Checking metanet Graph Library .....
No Metanet graph library found
Trying to install metanet library.....
Do you want to set proxy for internet connection(y/n): y
Login@netmon :yogesh.save
Passwd :

Startup execution:
loading initial environment

Installing metanet Graph Library .....

Checking metanet Graph Library .....

Graph Library metanet is installed
Please select installation directory (e.g., /home/yogesh):
Directory found
Installation started.....
OSCAD/
OSCAD/setPath.py
```

Error messages and Solutions

1) Please download scilab 5.4.0 for 64 bits (Linux) from <http://www.scilab.org/products/scilab/download>

Solution:

- Open web browser (e.g, firefox)
- Open website <http://www.scilab.org/products/scilab/download> .
- Click on [Scilab 5.4.0 for 64 bits](#) under Linux section.
- Save scilab-5.4.0.bin.linux-x86_64.tar.gz to Downloads folder.
- Open scilab-5.4.0.bin.linux-x86_64.tar.gz.

2) Please download scilab 5.4.0 for 32 bits (Linux) from <http://www.scilab.org/products/scilab/download>

Solution:

- Open web browser (e.g., firefox)
- Open website <http://www.scilab.org/products/scilab/download> .
- Click on [Scilab 5.4.0 for 32 bits](#) under Linux section.
- Save scilab-5.4.0.bin.linux-i686.tar.gz to Downloads folder.
- Open scilab-5.4.0.bin.linux-i686.tar.gz.
- Run ./install_OSCAD.sh from the terminal which was previously opened.

3) Unable to find scilab5.4.0 or above in the specified location

Solution:

- Check the location of scilab5.4.0
- Run ./install_OSCAD.sh from the terminal which was previously opened.
- Specify path of scilab5.4.0 correctly (e.g. /home/(your_login_name)/Download/scilab5.4.0)

4) Require scilab version 5.4 or above

Problem:

- Current version of scilab is not compatible to OSCAD

Solution:

- Install latest version from <http://www.scilab.org/products/scilab/download>

4) Please re-run the ./installOSCAD.sh If you are getting this error first time
Please Install Python Library: python-module using package manager

Some python modules are not available. Kindly install them

Solution:

- Please re-run the ./installOSCAD.sh If problem persists install python-module using synaptic package manager.