

Eclipse Initial Setup

Contents

Remove Eclipse	2
Purge and Install Java 8.....	2
Install Latest Eclipse CDT.....	4
Install Eclipse CDT (old version)	8

Apex Embedded Systems

Apex Universal Library and Driver

Copyright (c) 2014-15 by Apex Embedded Systems. All rights reserved.

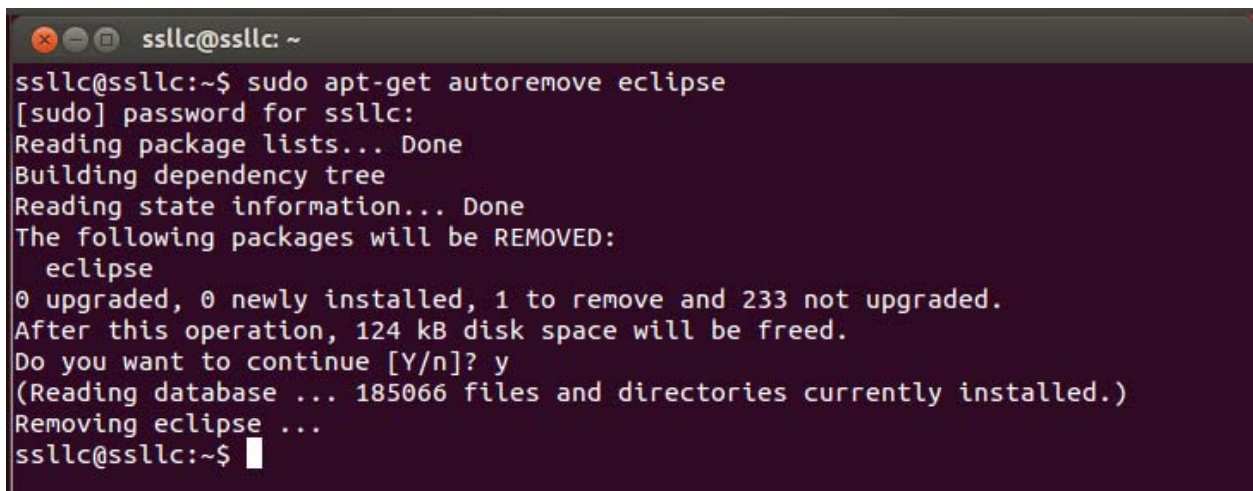
Remove Eclipse

If Eclipse is installed, you can remove Eclipse along with its dependencies by running the following commands. For more information:

<http://askubuntu.com/questions/282951/how-to-completely-uninstall-eclipse>

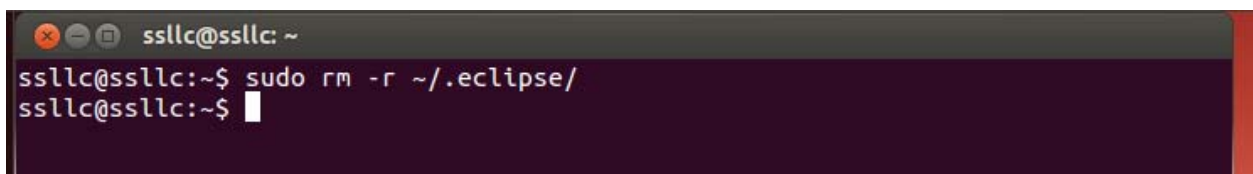
1. `sudo apt-get autoremove eclipse`

when asked to continue enter y

A terminal window with a dark background and light text. The prompt is 'ssllc@ssllc: ~'. The command 'sudo apt-get autoremove eclipse' has been entered. The output shows the system reading package lists, building a dependency tree, and reading state information. It then lists 'eclipse' as a package to be removed, indicating that 0 packages will be upgraded, 0 newly installed, 1 to be removed, and 233 not upgraded. It also states that 124 kB of disk space will be freed. A confirmation prompt 'Do you want to continue [Y/n]? y' has been answered with 'y'. The terminal shows 'Removing eclipse ...' and returns to the prompt 'ssllc@ssllc:~\$'.

2. `sudo rm -r ~/.eclipse/`

This will remove dependencies for Eclipse

A terminal window with a dark background and light text. The prompt is 'ssllc@ssllc: ~'. The command 'sudo rm -r ~/.eclipse/' has been entered. The terminal shows the command being executed and returns to the prompt 'ssllc@ssllc:~\$'.

Purge and Install Java 8

You can remove Java and install the latest version by running the following commands. For more information:

<http://ubuntuhandbook.org/index.php/2013/07/install-oracle-java-6-7-8-on-ubuntu-13-10/>

1. `sudo apt-get purge openjdk`

If you have it installed it will be removed. Otherwise, you will see a message that states: Unable to locate package openjdk

```
sslc@sslc: ~  
sslc@sslc:~$ sudo apt-get purge openjdk  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
E: Unable to locate package openjdk  
sslc@sslc:~$
```

2. `sudo add-apt-repository ppa:webupd8team/java`

Hit [ENTER] to continue when prompted.

```
sslc@sslc: ~  
sslc@sslc:~$ sudo add-apt-repository ppa:webupd8team/java  
You are about to add the following PPA to your system:  
Oracle Java (JDK) Installer (automatically downloads and installs Oracle JDK6 /  
JDK7 / JDK8). There are no actual Java files in this PPA.  
  
More info (and Ubuntu installation instructions):  
- for Oracle Java 7: http://www.webupd8.org/2012/01/install-oracle-java-jdk-7-in-ubuntu-via.html  
- for Oracle Java 8: http://www.webupd8.org/2012/09/install-oracle-java-8-in-ubuntu-via-ppa.html  
  
Debian installation instructions:  
- Oracle Java 7: http://www.webupd8.org/2012/06/how-to-install-oracle-java-7-in-debian.html  
- Oracle Java 8: http://www.webupd8.org/2014/03/how-to-install-oracle-java-8-in-debian.html  
More info: https://launchpad.net/~webupd8team/+archive/ubuntu/java  
Press [ENTER] to continue or ctrl-c to cancel adding it  
█
```

3. `sudo apt-get update`

This will take a few seconds and you should see something similar to below.

```
sslrc@sslrc: ~  
Hit http://us.archive.ubuntu.com precise-backports/multiverse i386 Packages  
Hit http://us.archive.ubuntu.com precise-backports/main TranslationIndex  
Hit http://us.archive.ubuntu.com precise-backports/multiverse TranslationIndex  
Hit http://us.archive.ubuntu.com precise-backports/restricted TranslationIndex  
Hit http://us.archive.ubuntu.com precise-backports/universe TranslationIndex  
Hit http://us.archive.ubuntu.com precise/main Translation-en  
Hit http://us.archive.ubuntu.com precise/restricted Translation-en  
Hit http://us.archive.ubuntu.com precise/universe Translation-en  
Hit http://us.archive.ubuntu.com precise-updates/main Translation-en  
Hit http://us.archive.ubuntu.com precise-updates/multiverse Translation-en  
Hit http://us.archive.ubuntu.com precise-updates/restricted Translation-en  
Hit http://us.archive.ubuntu.com precise-updates/universe Translation-en  
Hit http://us.archive.ubuntu.com precise-backports/main Translation-en  
Hit http://us.archive.ubuntu.com precise-backports/multiverse Translation-en  
Hit http://us.archive.ubuntu.com precise-backports/restricted Translation-en  
Hit http://us.archive.ubuntu.com precise-backports/universe Translation-en  
Ign http://extras.ubuntu.com precise/main Translation-en_US  
Ign http://extras.ubuntu.com precise/main Translation-en  
Ign http://ppa.launchpad.net precise/main Translation-en_US  
Ign http://ppa.launchpad.net precise/main Translation-en  
Fetched 2,002 kB in 2s (708 kB/s)  
Reading package lists... Done  
sslrc@sslrc:~$
```

4. `sudo apt-get install oracle-java8-installer`

```
sslrc@sslrc: ~  
sslrc@sslrc:~$ sudo apt-get install oracle-java8-installer  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
oracle-java8-installer is already the newest version.  
0 upgraded, 0 newly installed, 0 to remove and 242 not upgraded.  
sslrc@sslrc:~$
```

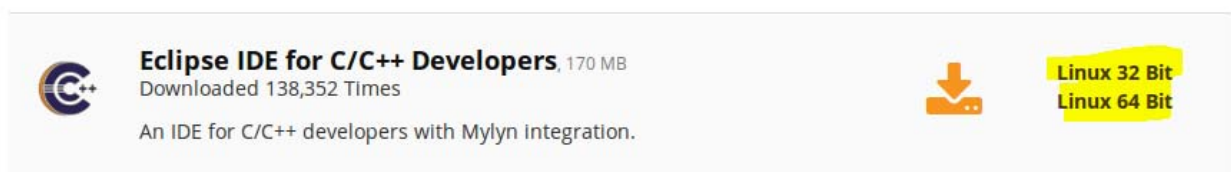
Install Latest Eclipse CDT

Downloads can be found here: <http://www.eclipse.org/downloads/>

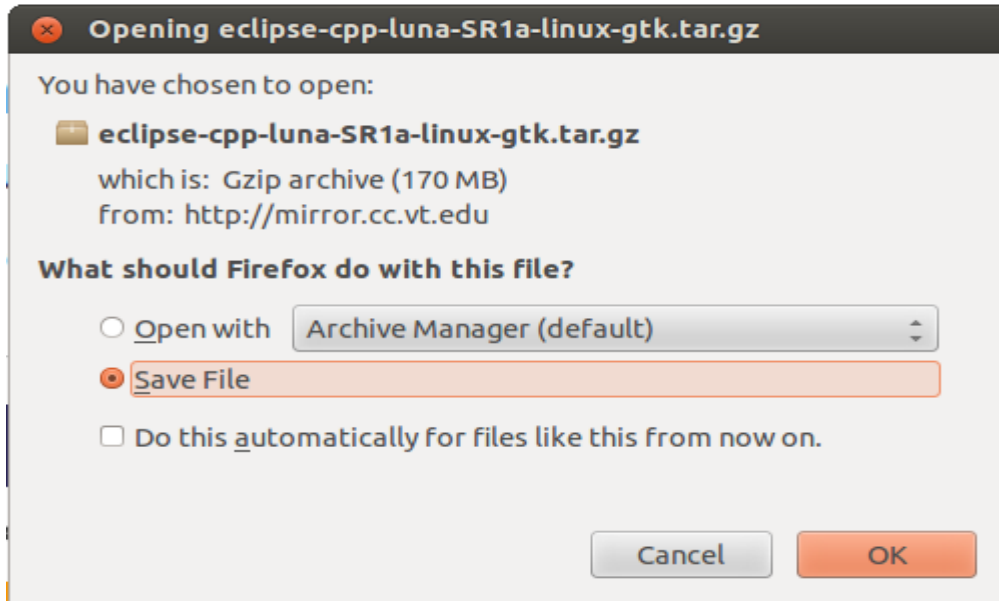
More information can be found here:

<http://ubuntuhandbook.org/index.php/2014/06/install-latest-eclipse-ubuntu-14-04/>

1. Download the latest Eclipse IDE for C/C++ Developers. Pick your proper OS



2. Select Save File and hit OK to continue



3. Depending on your network connection, the download may take time.
4. When completed the tar file will be in your Downloads directory.
5. `sudo mv Downloads/eclipse-* /opt/`
This will move the eclipse tar to the opt directory
6. change to the opt directory with : `cd /opt`
7. `sudo tar -xvf eclipse-cpp*`
When the Tar program finishes extracting you will see something similar to below

Se

```
ssllc@ssllc: /opt
eclipse/plugins/org.eclipse.ui.themes_1.0.1.v20140819-1717/css/high-contrast.css
eclipse/plugins/org.eclipse.ui.themes_1.0.1.v20140819-1717/css/e4_default_winxp_
blu.css
eclipse/plugins/org.eclipse.ui.themes_1.0.1.v20140819-1717/css/e4_default_winxp_
olv.css
eclipse/plugins/org.eclipse.ui.themes_1.0.1.v20140819-1717/plugin.xml
eclipse/plugins/org.eclipse.cdt.debug.ui.memory.floatingpoint_1.0.0.201409172108
.jar
eclipse/plugins/org.eclipse.jgit_3.4.2.201412180340-r.jar
eclipse/plugins/org.eclipse.linuxtools.cdt.autotools.core_2.0.0.201409172108.jar
eclipse/plugins/org.eclipse.equinox.p2.artifact.repository_1.1.300.v20131211-153
1.jar
eclipse/plugins/org.eclipse.ui_3.106.0.v20140812-1751.jar
eclipse/plugins/org.eclipse.ecf.provider.filetransfer.ssl_1.0.0.v20140827-1444.j
ar
eclipse/configuration/
eclipse/configuration/org.eclipse.equinox.simpleconfigurator/
eclipse/configuration/org.eclipse.equinox.simpleconfigurator/bundles.info
eclipse/configuration/org.eclipse.equinox.source/
eclipse/configuration/org.eclipse.equinox.source/source.info
eclipse/configuration/config.ini
eclipse/configuration/org.eclipse.update/
eclipse/configuration/org.eclipse.update/platform.xml
ssllc@ssllc: /opt$
```

8. Setup the desktop file for Eclipse, in the next several steps below.
9. Run: `sudo gedit /usr/share/applications/eclipse.desktop`
Add following to the file

```
[Desktop Entry]
Name=Eclipse
Type=Application
Exec=/opt/eclipse/eclipse
Terminal=false
Icon=/opt/eclipse/icon.xpm
Comment=Integrated Development Environment
NoDisplay=false
Categories=Development;IDE;
Name[en]=eclipse.desktop
```

10. Add Eclipse to Unity.

```
11. sudo desktop-file-install /usr/share/applications/eclipse.desktop
```

12. Create symlink

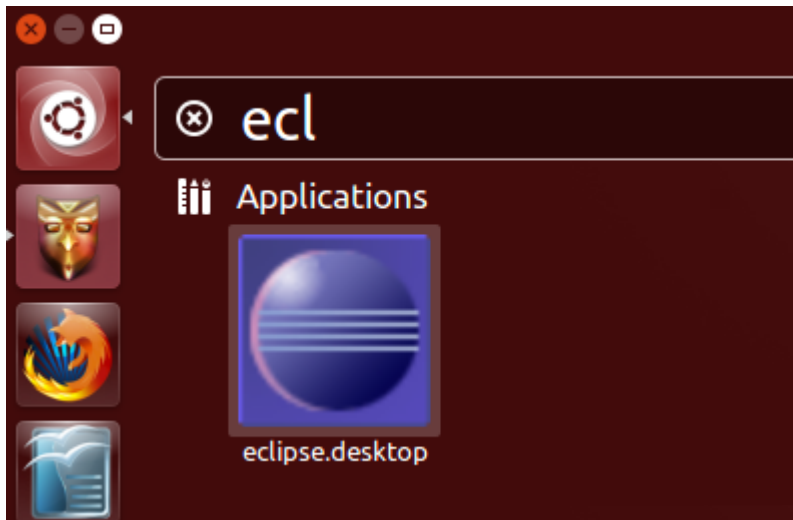
```
cd /usr/local/bin/
```

```
sudo ln -s /opt/eclipse/eclipse
```

13. Add Eclipse display to dash

```
14. sudo cp /opt/eclipse/icon.xpm /usr/share/pixmaps/eclipse.xpm
```

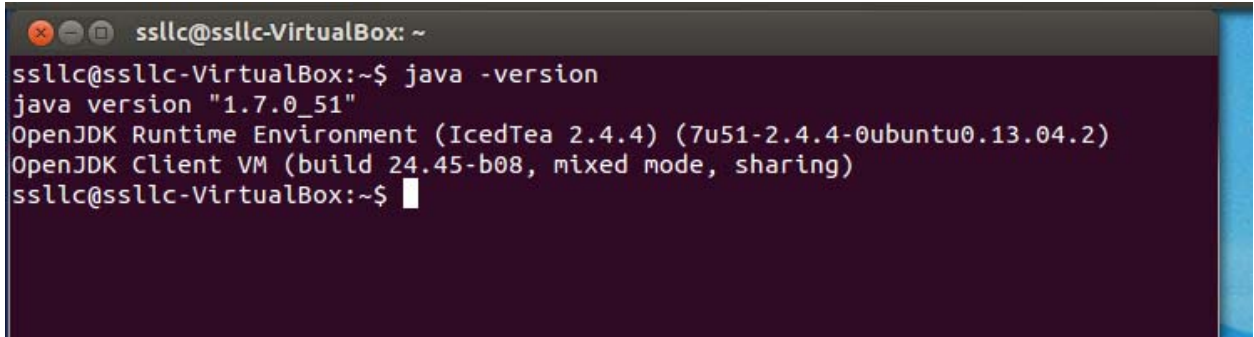
When this is completed, you will be able to run the newly installed Eclipse version from dash as shown below.



Install Eclipse CDT (old version)

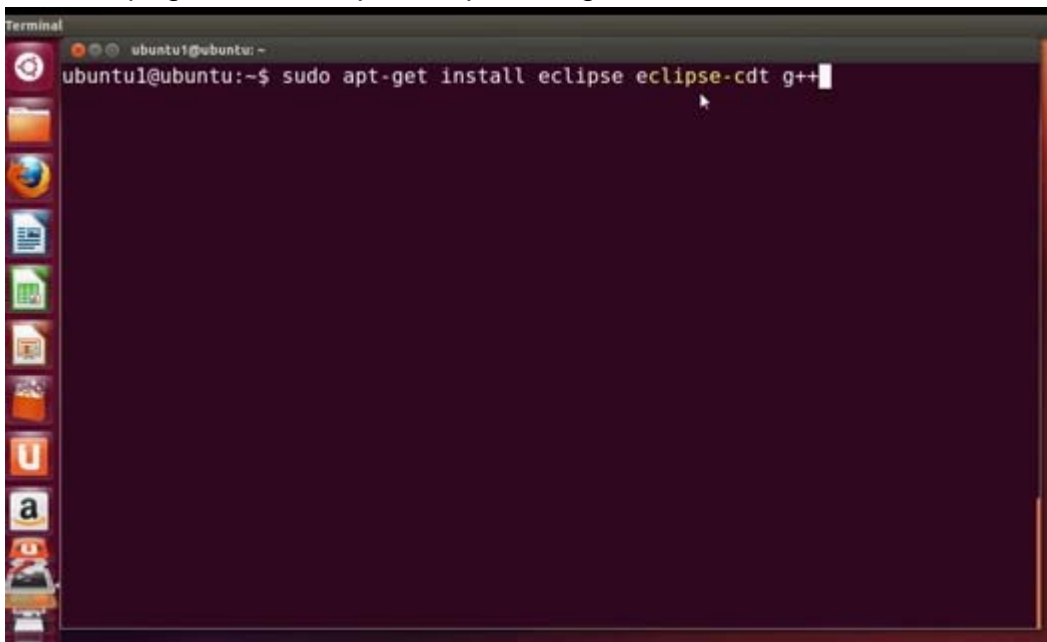
Although the following does work, the latest version of Eclipse is not always installed. Please try the previous steps. Installing Eclipse CDT from the command line on Linux requires root password access.

1. Verify Java install by entering following command
\$ java -version

A terminal window titled 'ssllc@ssllc-VirtualBox: ~' showing the output of the 'java -version' command. The output indicates that OpenJDK is installed, specifically version 1.7.0_51, with details about the runtime environment and client VM build.

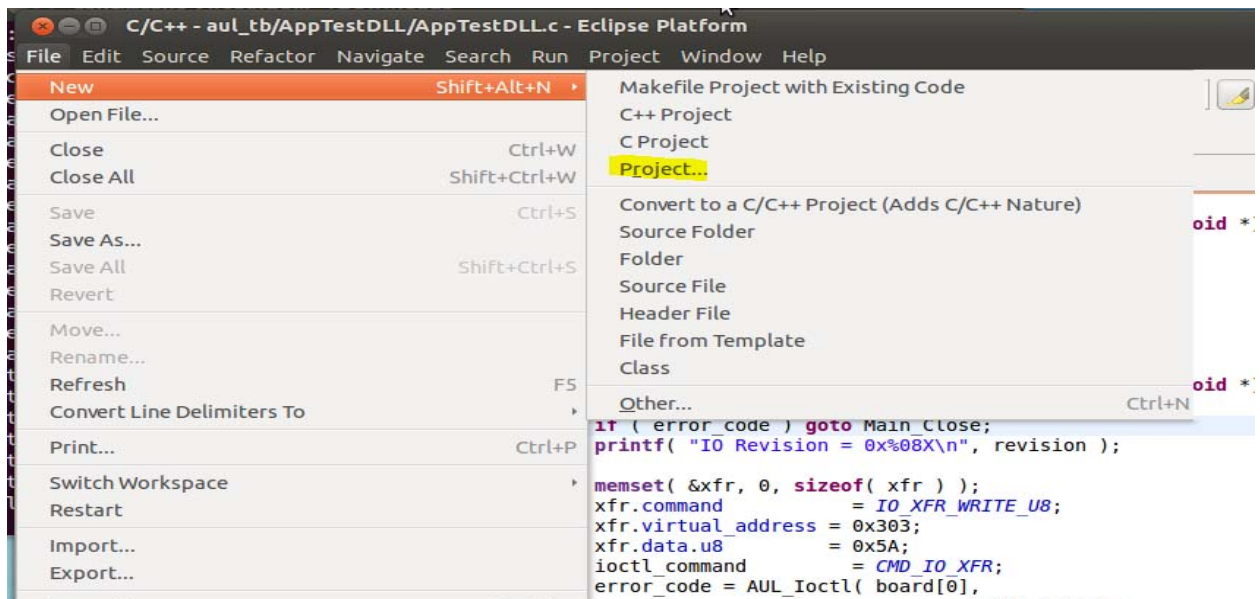
```
ssllc@ssllc-VirtualBox: ~  
ssllc@ssllc-VirtualBox:~$ java -version  
java version "1.7.0_51"  
OpenJDK Runtime Environment (IcedTea 2.4.4) (7u51-2.4.4-0ubuntu0.13.04.2)  
OpenJDK Client VM (build 24.45-b08, mixed mode, sharing)  
ssllc@ssllc-VirtualBox:~$
```

2. If Java is installed you will see output as above
3. If Java is not installed run following command
\$ sudo apt-get install default-jre
4. To install Eclipse CDT open a terminal and run the following command
\$ sudo apt-get install eclipse eclipse-cdt g++

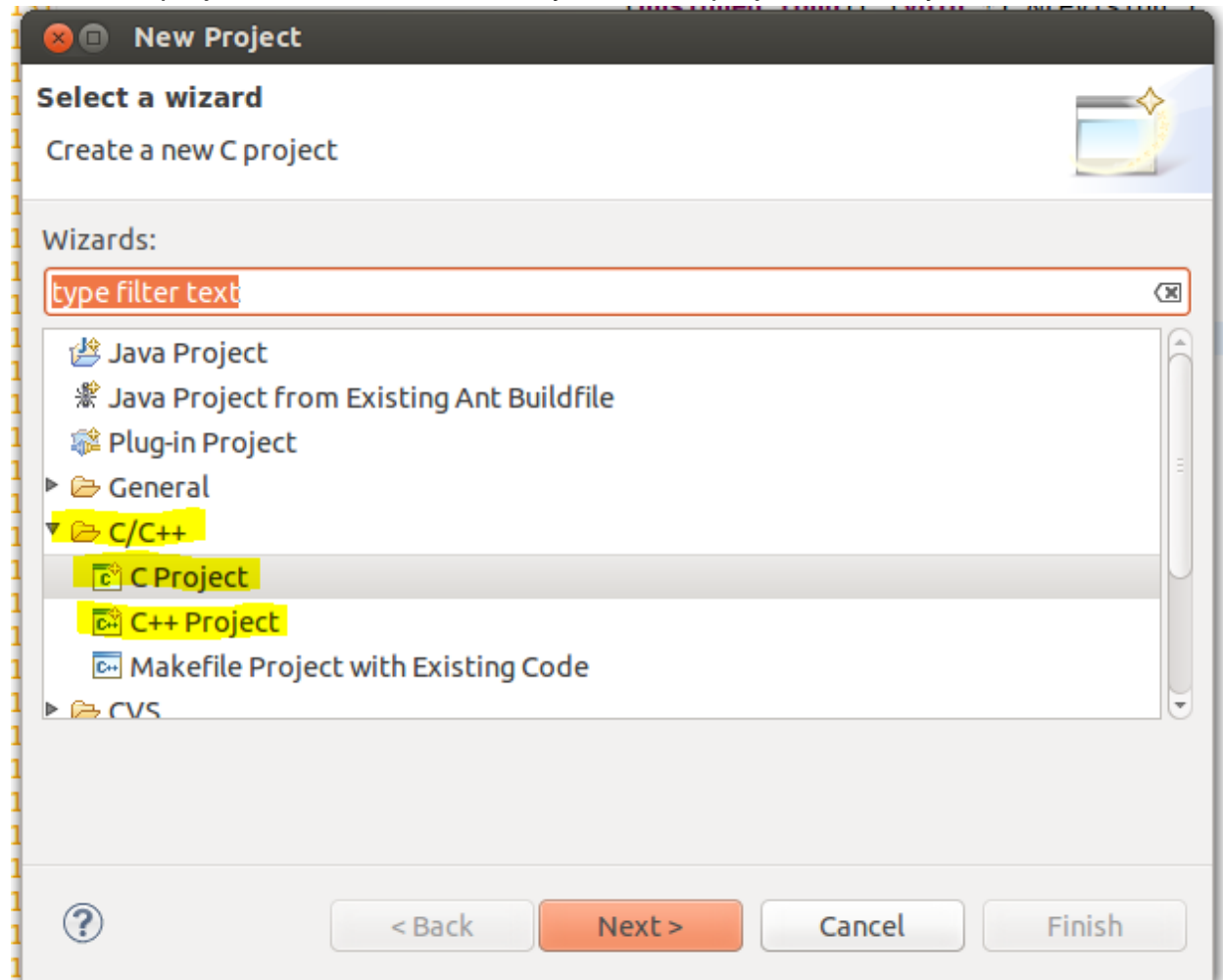
A terminal window titled 'Terminal' with the prompt 'ubuntu1@ubuntu: ~'. The command 'sudo apt-get install eclipse eclipse-cdt g++' is entered and is being executed, as indicated by the cursor at the end of the line.

```
Terminal  
ubuntu1@ubuntu: ~  
ubuntu1@ubuntu:~$ sudo apt-get install eclipse eclipse-cdt g++
```

5. To run Eclipse run the following command
\$ eclipse
6. You can verify CDT install by selecting File => New => Project



7. In the new project wizard, the availability of C/C++ project will verify CDT install.



8. Eclipse with CDT is successfully installed.