

# Apex Universal Library Initial Setup

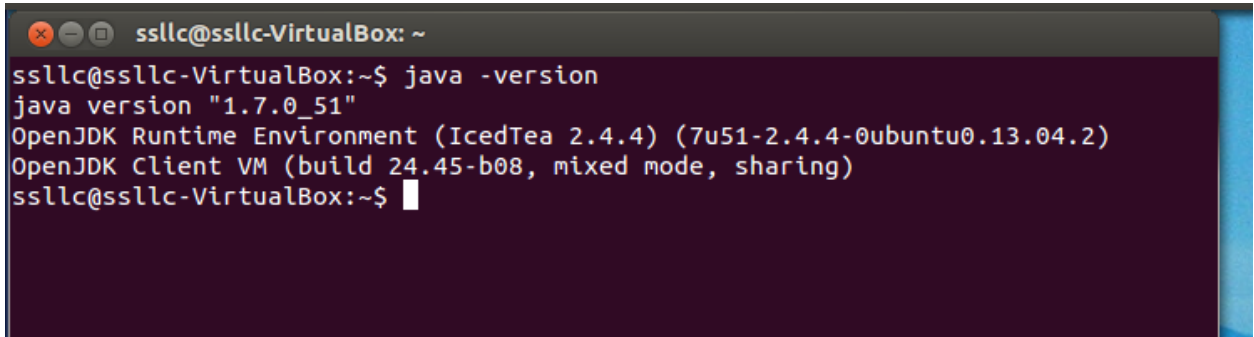
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## Install Eclipse CDT

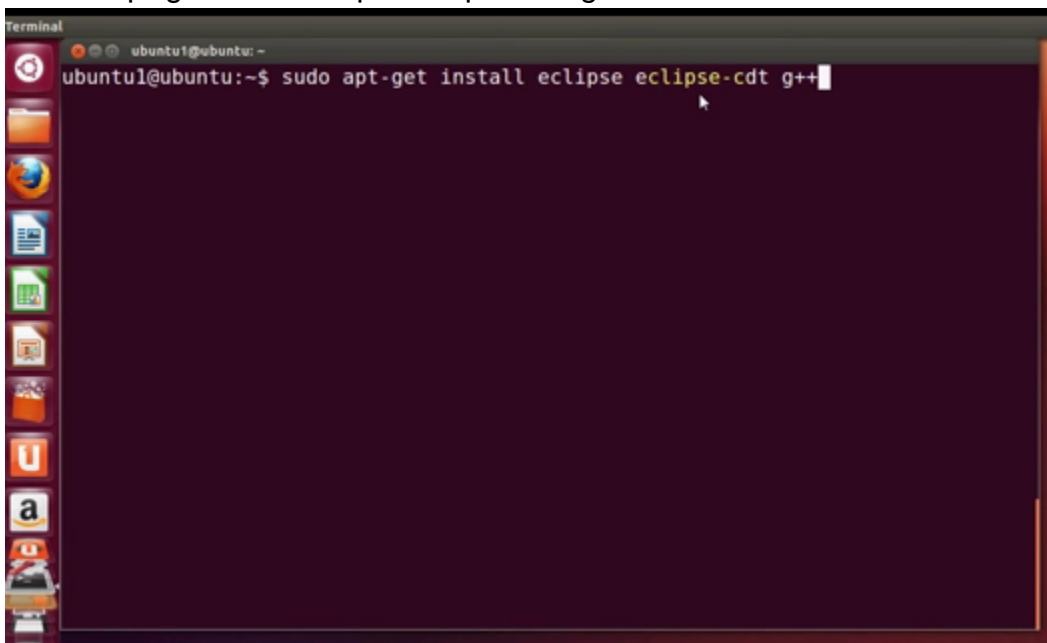
Installing Eclipse CDT from the command line on Linux requires root password access.

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

A terminal window titled 'ssllc@ssllc-VirtualBox: ~' with a dark purple background. The command 'java -version' has been executed, resulting in the following output: 'java version "1.7.0\_51"', 'OpenJDK Runtime Environment (IcedTea 2.4.4) (7u51-2.4.4-0ubuntu0.13.04.2)', and 'OpenJDK Client VM (build 24.45-b08, mixed mode, sharing)'. The prompt 'ssllc@ssllc-VirtualBox:~\$' is visible at the bottom.

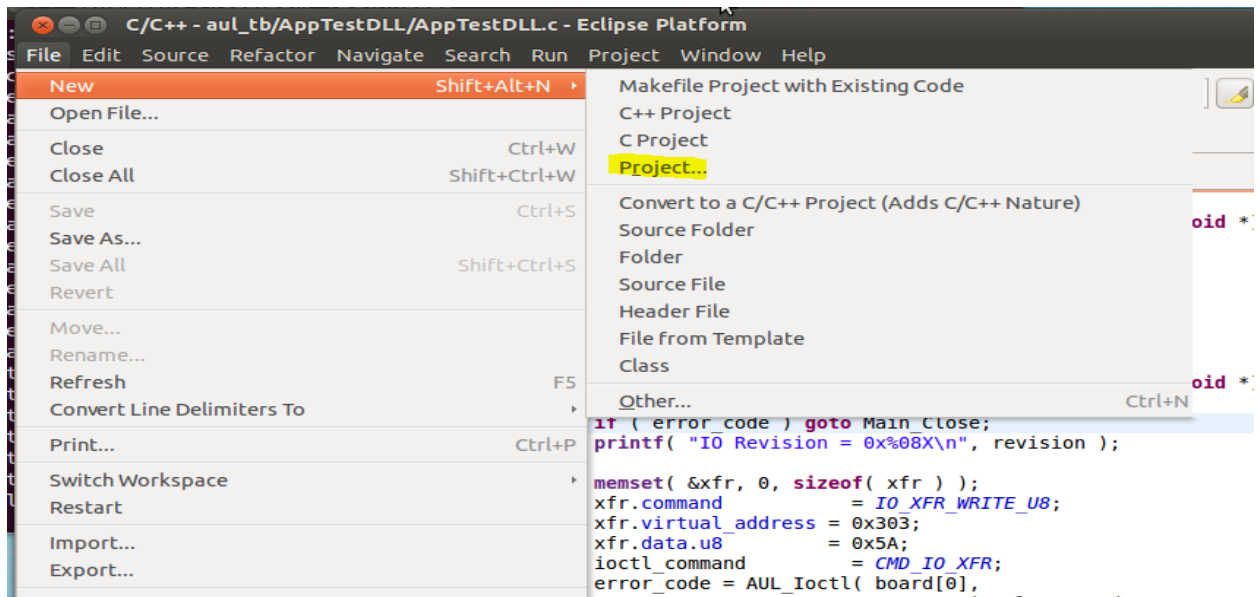
```
ssllc@ssllc-VirtualBox: ~  
ssllc@ssllc-VirtualBox:~$ java -version  
java version "1.7.0_51"  
OpenJDK Runtime Environment (IcedTea 2.4.4) (7u51-2.4.4-0ubuntu0.13.04.2)  
OpenJDK Client VM (build 24.45-b08, mixed mode, sharing)  
ssllc@ssllc-VirtualBox:~$
```

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++`

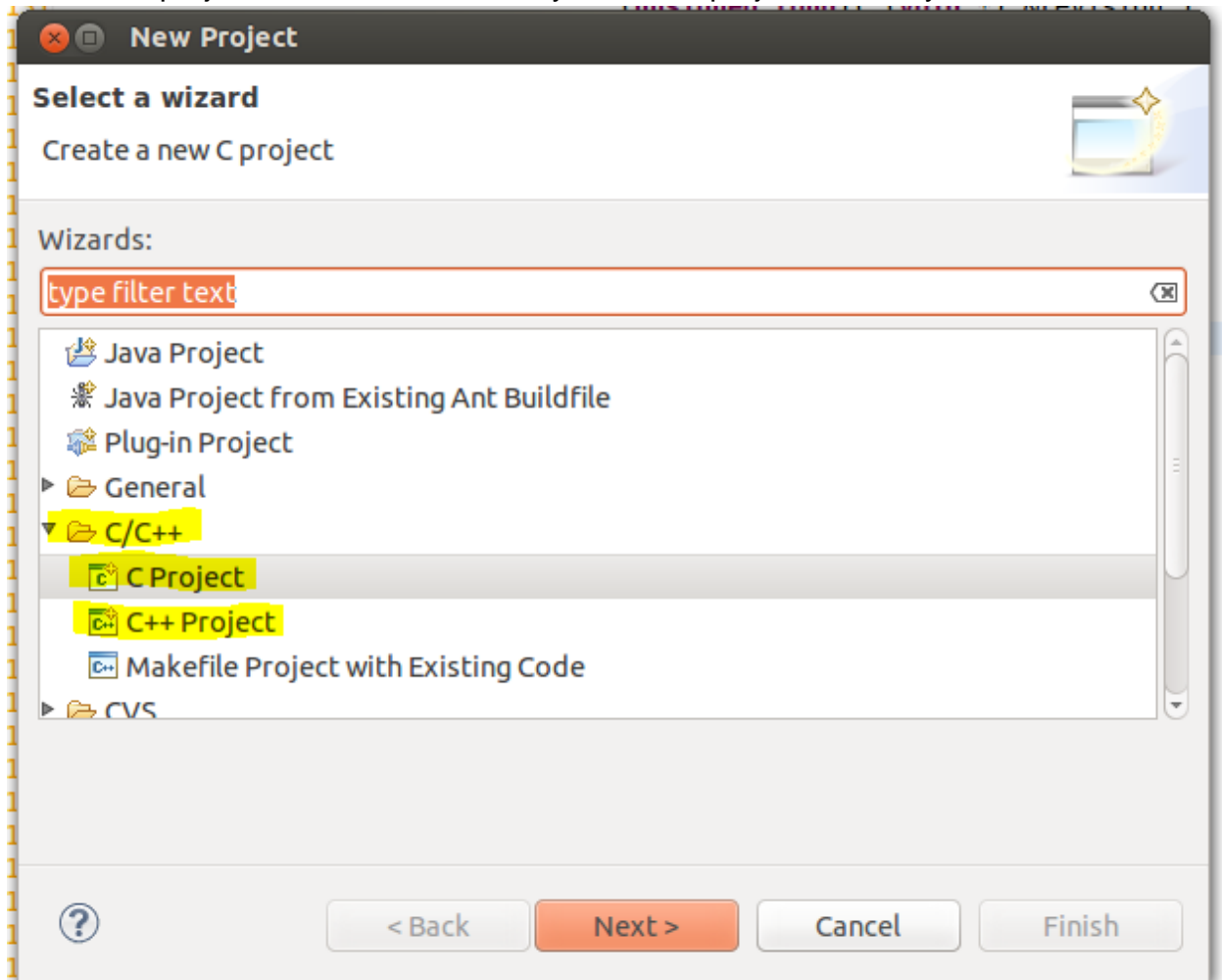
A terminal window titled 'Terminal' with a dark purple background. The command 'sudo apt-get install eclipse eclipse-cdt g++' is being typed at the prompt 'ubuntu1@ubuntu:~\$'. The window has a sidebar on the left with various application icons.

```
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.

## Install Subclipse

To install Subclipse for Eclipse you must first find the current version of Subclipse. A video tutorial on Subclipse installation can be viewed here:

[https://www.youtube.com/watch?v=wZc8Y2\\_UMP8](https://www.youtube.com/watch?v=wZc8Y2_UMP8)

1. Open a browser and point to

<http://subclipse.tigris.org/servlets/ProjectProcess;jsessionid=C2E4D95EFEDD91D4D4BB1273793FED97?pageID=p4wYuA>

Select the latest release and the Eclipse Update site URL

subclipse

### Download and Install

[Project home](#) [Screenshots](#) [Download and Install](#) [Issues and Help](#)

**Get the right version!**

Subclipse versions are tied to specific versions of the Subversion client API. So you must have server, so generally the version does not matter too much. However, if you use multiple client support a specific version of Subversion and JavaHL. So you might want to stick with a specific version.

[More information](#) on how to get JavaHL, and the right version for each version of Subclipse can be found here.

**Current Release**

**Eclipse 3.2/Callisto, 3.3/Europa, 3.4/Ganymede, 3.5/Galileo, 3.6/Helios, 3.7/Isochrone**

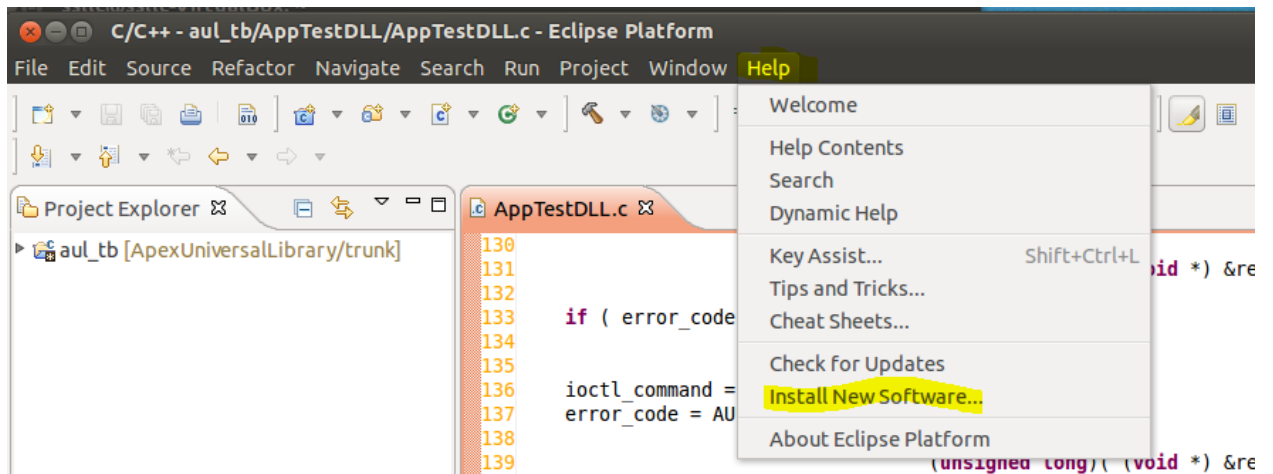
**Subclipse 1.10.4 and 1.8.22 and 1.6.18 and 1.4.8 are now available for Eclipse 3.2+!**

See the changelog for details. Existing Subclipse users should read the [upgrade instructions](#) for Subclipse 1.4.x includes and requires Subversion 1.5.x client features and working copy format. Subclipse 1.6.x includes and requires Subversion 1.6.x client features and working copy format. Subclipse 1.8.x includes and requires Subversion 1.7.x client features and working copy format. Subclipse 1.10.x includes and requires Subversion 1.8.x client features and working copy format.

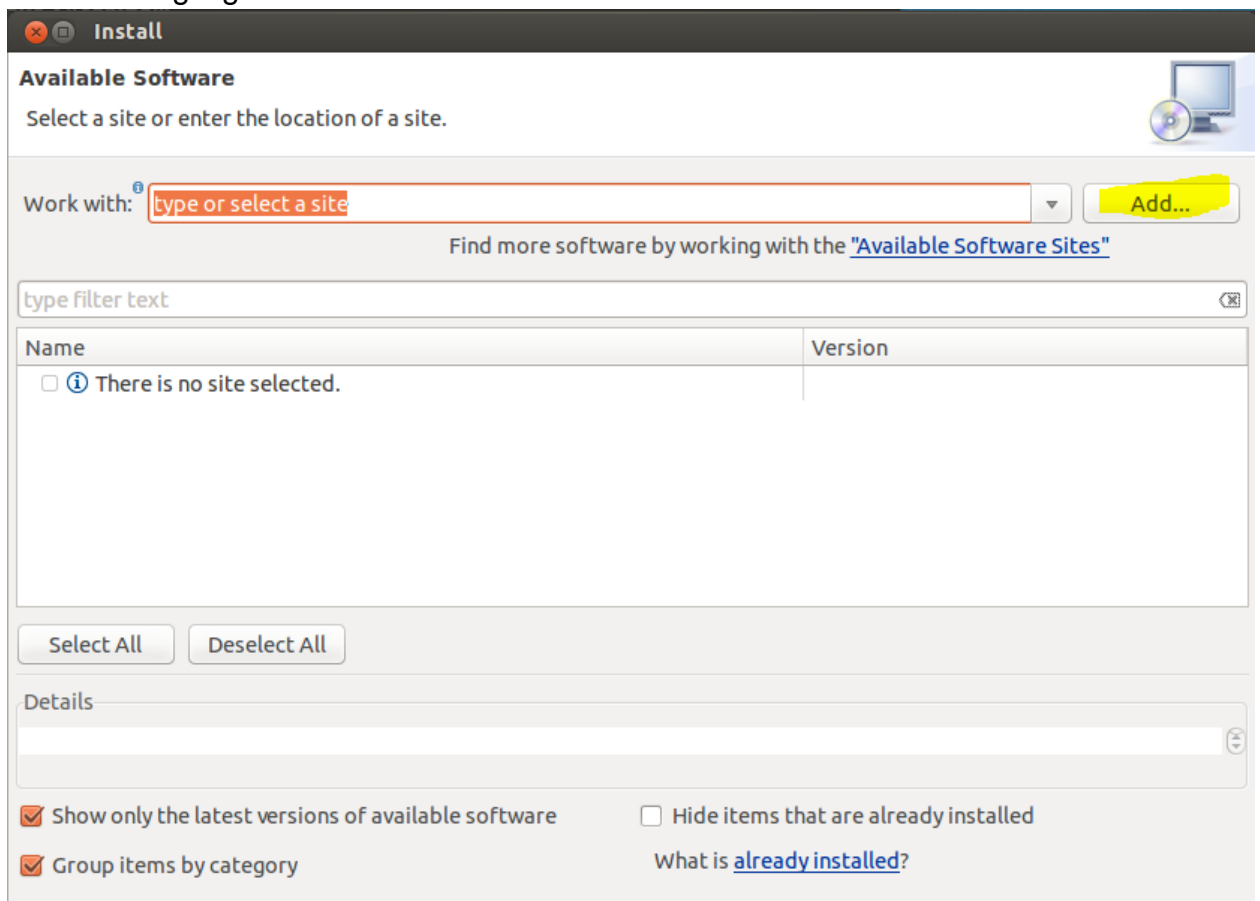
**Links for 1.10.x Release:**  
Changelog: [http://subclipse.tigris.org/subclipse\\_1.10.x/changes.html](http://subclipse.tigris.org/subclipse_1.10.x/changes.html)  
Eclipse update site URL: [http://subclipse.tigris.org/update\\_1.10.x](http://subclipse.tigris.org/update_1.10.x)  
Zipped downloads: <http://subclipse.tigris.org/servlets/ProjectDocumentList?folderID=2240>  
Archived releases: <http://subclipse.tigris.org/archive>

**Links for 1.8.x Release:**  
Changelog: [http://subclipse.tigris.org/subclipse\\_1.8.x/changes.html](http://subclipse.tigris.org/subclipse_1.8.x/changes.html)  
Eclipse update site URL: [http://subclipse.tigris.org/update\\_1.8.x](http://subclipse.tigris.org/update_1.8.x)  
Zipped downloads: <http://subclipse.tigris.org/servlets/ProjectDocumentList?folderID=2240>  
Archived releases: <http://subclipse.tigris.org/archive>

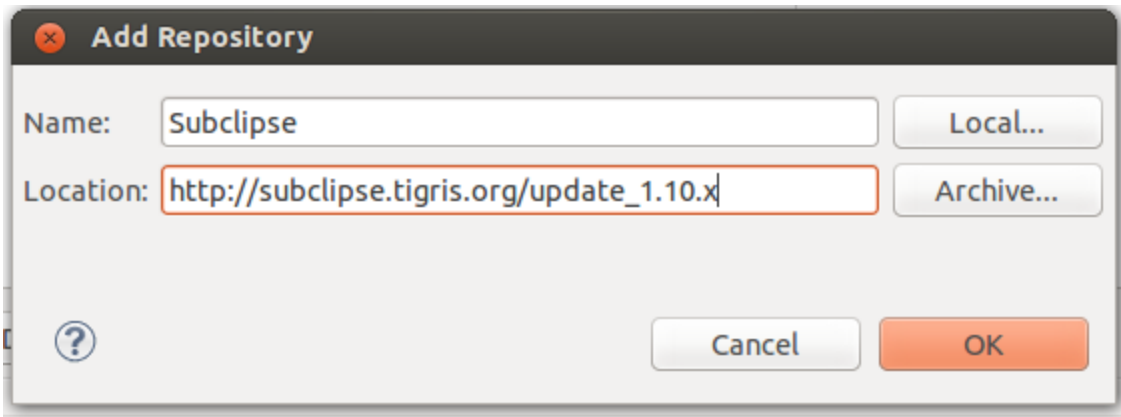
2. Copy the appropriate subclipse URL to the clipboard
3. Start eclipse by entering the following command  
\$ eclipse
4. From the menu Eclipse select Help => Install new software



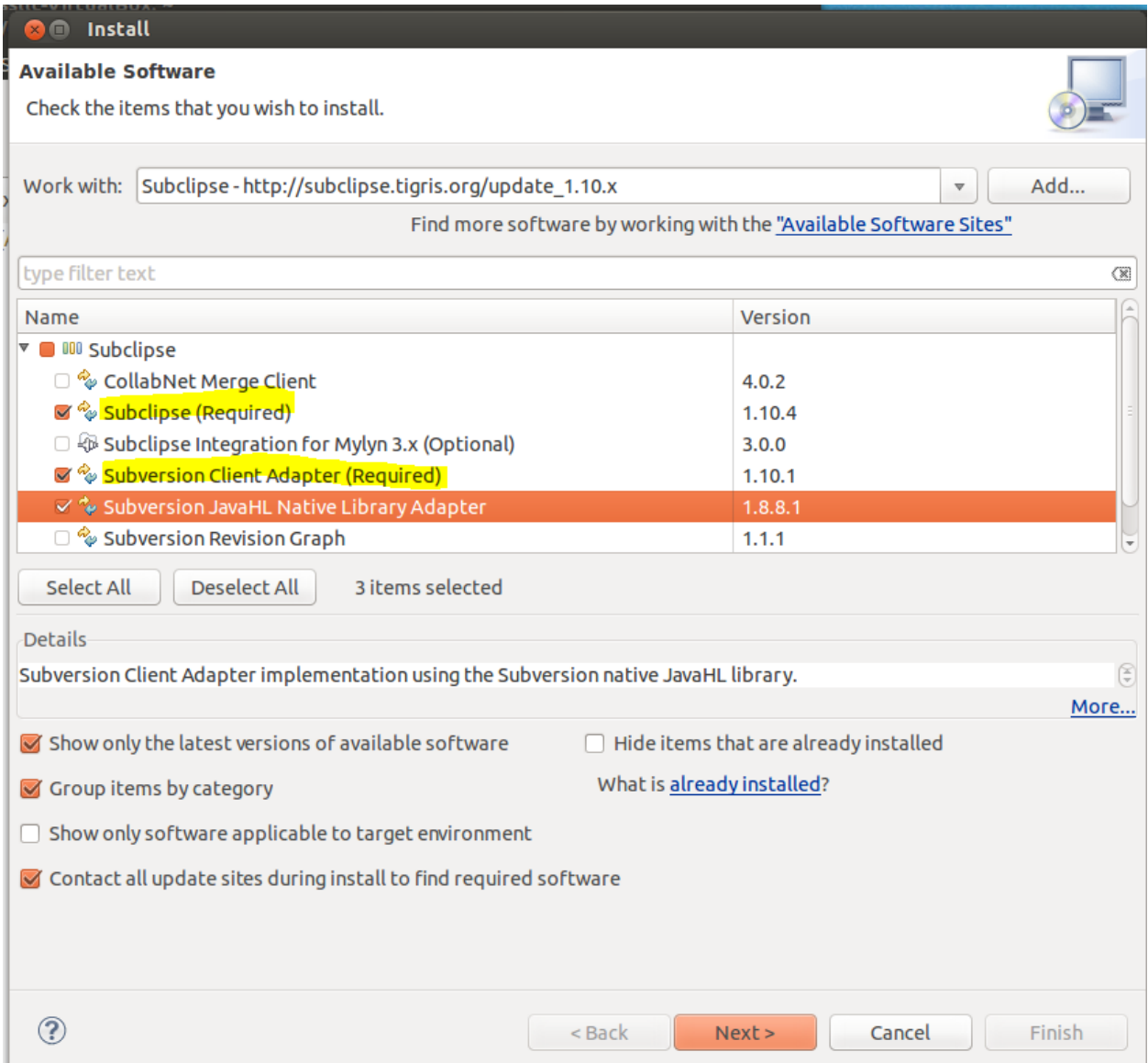
5. Click add highlighted below



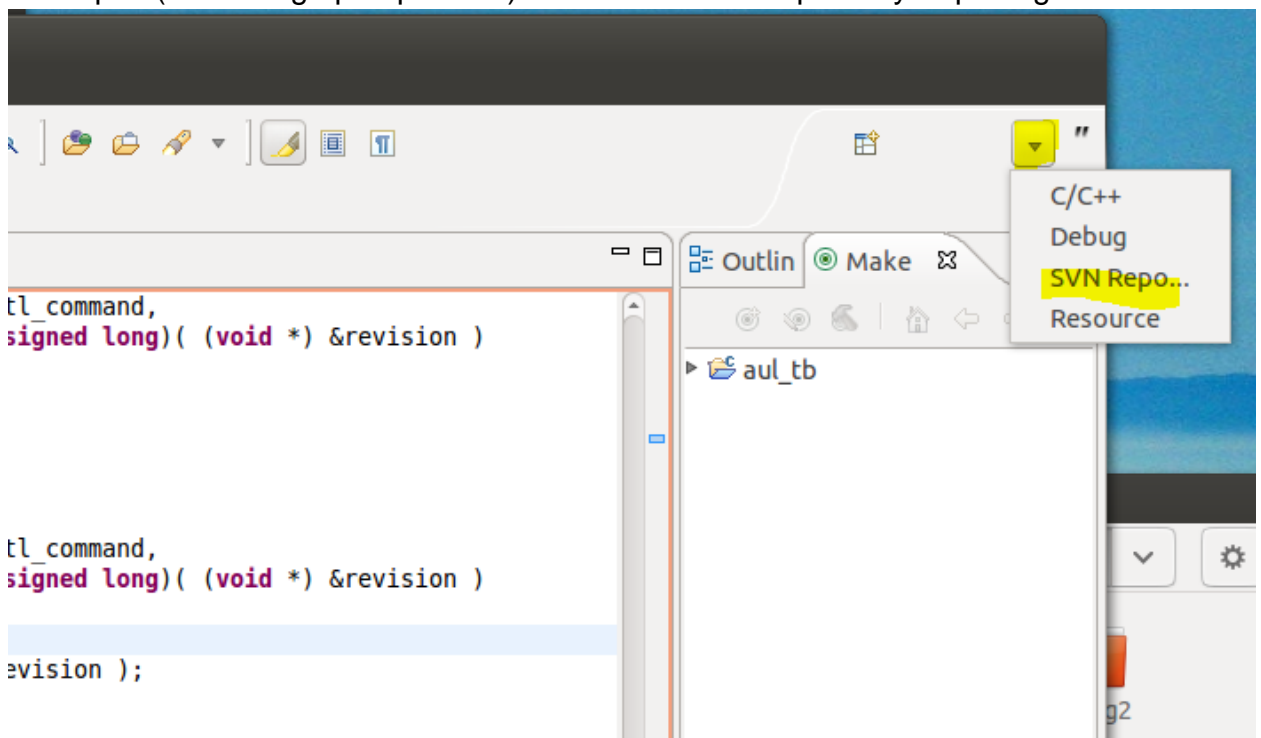
6. Enter a name for the repository and the URL from #1 above into Location field and select OK



7. In the resulting dialog, Expand Subclipse and select the checkboxes for Subclipse and Subversion Client Adapter. Both are required. RECOMMENDED to install Subversion JavaHL Native Library Adapter and select next



8. You will be prompted to accept license terms and then restart Eclipse.
9. You can verify Subclipse install by selecting the down arrow in upper right corner of Eclipse ( To change perspective ) and select SVN Repository Exploring



10. If this option is available then you have successfully installed Subclipse.

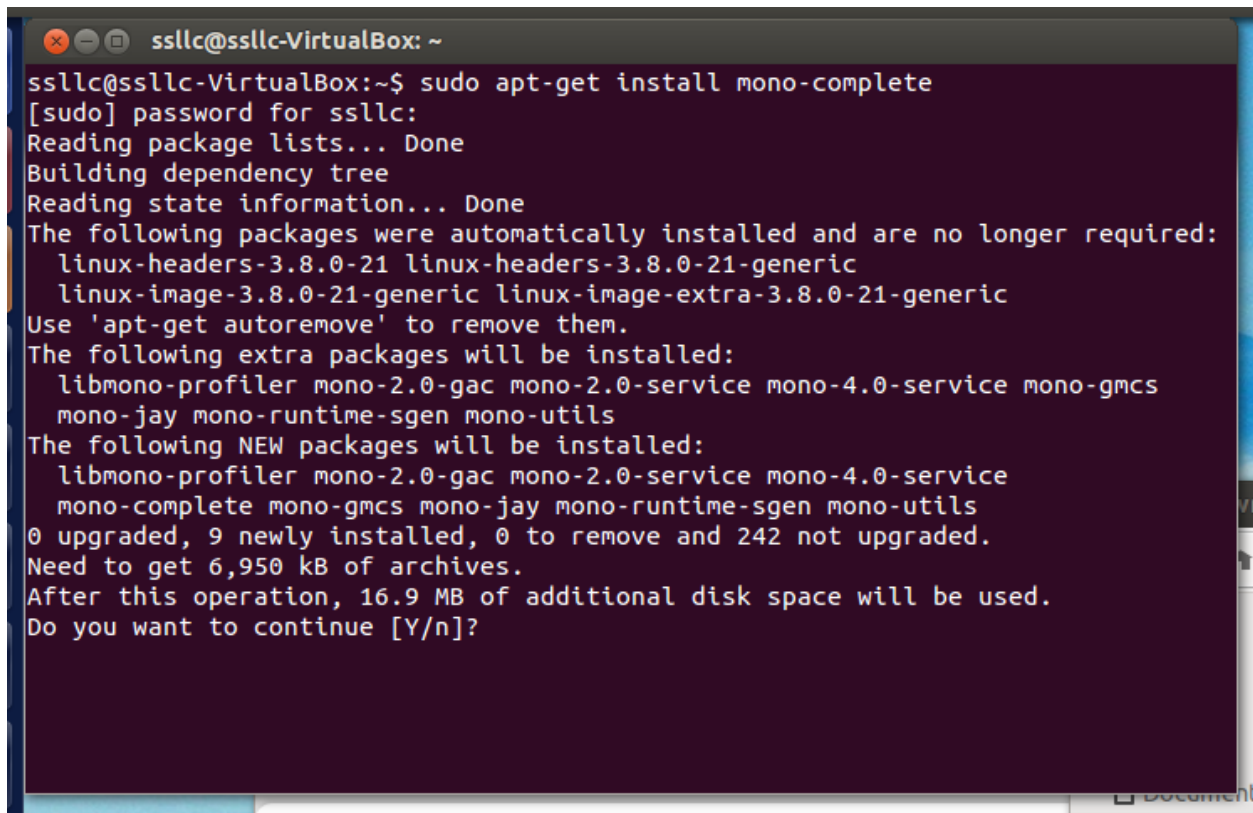
## Install Mono-Complete

Mono-Complete is required to run C# Mono applications utilizing the .Net framework 4.0 on Linux.

To install Mono Complete open terminal and run following command.

```
$ sudo apt-get install mono-complete
```

You will be prompted for root password to allow install. After root password is entered, you will see output as below.

A terminal window titled 'ssllc@ssllc-VirtualBox: ~' showing the output of the command 'sudo apt-get install mono-complete'. The output includes package lists, dependency tree building, state information, and a list of packages to be installed. It also shows the disk space requirements and asks for confirmation to continue.

```
ssllc@ssllc-VirtualBox:~$ sudo apt-get install mono-complete
[sudo] password for ssllc:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-3.8.0-21 linux-headers-3.8.0-21-generic
  linux-image-3.8.0-21-generic linux-image-extra-3.8.0-21-generic
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  libmono-profiler mono-2.0-gac mono-2.0-service mono-4.0-service mono-gmcs
  mono-jay mono-runtime-sgen mono-utils
The following NEW packages will be installed:
  libmono-profiler mono-2.0-gac mono-2.0-service mono-4.0-service
  mono-complete mono-gmcs mono-jay mono-runtime-sgen mono-utils
0 upgraded, 9 newly installed, 0 to remove and 242 not upgraded.
Need to get 6,950 kB of archives.
After this operation, 16.9 MB of additional disk space will be used.
Do you want to continue [Y/n]?
```

Enter Y to continue with mono-complete installation. Time to install will vary depending on your network connection speed. Successful installs will create output similar to below.



```
ssllc@ssllc-VirtualBox: ~  
eb) ...  
Selecting previously unselected package mono-utils.  
Unpacking mono-utils (from ../mono-utils_2.10.8.1-5ubuntu1_i386.deb) ...  
Selecting previously unselected package mono-jay.  
Unpacking mono-jay (from ../mono-jay_2.10.8.1-5ubuntu1_i386.deb) ...  
Selecting previously unselected package mono-gmcs.  
Unpacking mono-gmcs (from ../mono-gmcs_2.10.8.1-5ubuntu1_all.deb) ...  
Selecting previously unselected package mono-complete.  
Unpacking mono-complete (from ../mono-complete_2.10.8.1-5ubuntu1_i386.deb) ...  
Processing triggers for man-db ...  
Setting up libmono-profiler (2.10.8.1-5ubuntu1) ...  
Setting up mono-2.0-gac (2.10.8.1-5ubuntu1) ...  
Setting up mono-2.0-service (2.10.8.1-5ubuntu1) ...  
Setting up mono-4.0-service (2.10.8.1-5ubuntu1) ...  
Setting up mono-runtime-sgen (2.10.8.1-5ubuntu1) ...  
Setting up mono-utils (2.10.8.1-5ubuntu1) ...  
update-alternatives: using /usr/bin/monodis to provide /usr/bin/cli-ildasm (cil-  
disassembler) in auto mode  
Setting up mono-jay (2.10.8.1-5ubuntu1) ...  
Setting up mono-gmcs (2.10.8.1-5ubuntu1) ...  
Setting up mono-complete (2.10.8.1-5ubuntu1) ...  
Processing triggers for libc-bin ...  
ldconfig deferred processing now taking place  
ssllc@ssllc-VirtualBox:~$
```

Mono-complete is successfully installed. No further steps are necessary to install Mono