



1 The procedure to install Advance C++ in Ubuntu Linux OS

1. To follow the installation procedure, you need to be connected to the **internet**.
2. You must have **Synaptic Package Manager** installed on your machine.
3. If not installed, please install Synaptic Package Manager using Ubuntu Software Center.

1.1 The procedure to install Advance C++

1. On Ubuntu 11.04 and higher,
 - (a) Press the **Window** key on your keyboard to open **Dash Home**.
 - (b) Type **Synaptic Package Manager**.
 - (c) Click on the **Synaptic Package Manager** option.
2. Enter your **Admin Password**.
3. Click on **OK**.
4. In the search box, type **g++**.
5. Click on the **g++** check box and click on **Mark for Installation**.
6. Click on **Mark**.
7. Finally, click on **Apply**.
8. Again, click **Apply** for installation.
9. The installation will take a few minutes depending on your internet speed.

1.2 The procedure to install Advance C++ via Terminal

1. Open the terminal by pressing **Ctrl + Alt + T** keys together.
2. Now in the terminal type **sudo apt-get install g++** and press **Enter**.
3. Enter the system password if required.
4. It will display how much has to be downloaded from the internet and how much disk space will be occupied.
5. Type **y** and press **Enter** to confirm this.
6. This will install Advance C++.

1.3 The procedure to check Advance C++ installation

1. Open the terminal.
2. Now in the terminal type **g++ -v** and press **Enter**.
3. Enter the system password if required.
4. This will display the installed **gcc version version-number <gcc>**.

2 The procedure to install MinGW Compiler for Advance C++ on Windows OS

1. To follow the installation procedure, you need to be connected to the internet.
2. For Windows OS, we will install MinGW compiler.
3. Go to <http://sourceforge.net/projects/mingw/files/Installer/>
4. Please locate the executable file `mingw-get-setup.exe`
5. Click on this `.exe` file.
6. A dialog box appears prompting you to Run the file.
7. Click on Run.
8. This opens the Installation Wizard.
9. Click on Install.
10. Then click on Continue.
11. Again click on Continue.
12. Click on the `mingw32-gcc-g++ GNU C++ Compiler` check box and click on Mark for Installation.
13. Now check the option for `mingw32-gcc-objc The GNU Objective-C Compiler` also and click on Mark for Installation.
14. Click on Installation option on the top left hand side corner.
15. Then click on Apply changes.
16. Finally, click on Close. This will install `gcc` and `g++` compiler on your system.
17. Close the window.
18. Next, we need to set the path for the System Variables.
19. Right-click on My Computer.
20. Click on Properties.
21. Then click on the Advanced tab or Advanced System Settings link.
22. Click on Environment Variables.
23. Then under System Variables select the Path.
24. Double-click on the Path.
25. This will open a dialog box Edit System Variable.
26. In Variable value, type the location where the `bin` file is present.
27. Add a semicolon (`;`) before adding the path.
For example: `;C:/MinGW/bin`
28. This will avoid overwriting the paths you have set previously.
29. Now, open the command prompt and type `gcc -v`
30. This will display the version no. of the `gcc` installed.
31. In this case, it will display `gcc version 4.6.2 <gcc>`
32. However, the version of `gcc / g++` may possibly vary.
33. This shows that the installation is successfully done.