

How to Install cygwin For +1Copybook

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To install cygwin onto your laptop or PC in order to run +1Copybook, visit:

<https://cygwin.com/install.html>

If your PC is 64-bit, click on the **setup_x86_64.exe** link. Once the setup_x86_64.exe binary file has been downloaded to your laptop, move the hot point of your mouse to be on top of the downloaded file icon, click the right mouse button and select **Open**.

Now click the following buttons to install cygwin in this order:

1. Click **Run** and/or **Yes** button.
2. Click **Next** button after reading introduction frame.
3. Click **Next** button to select default of Install from Internet.
4. Click **Next** button to use default root directory of C:\cygwin64 to install software.
5. Click **Next** button to use default Local Package Directory of C:\Users\\Download.
6. Click **Next** button to select Direct Connection.
7. Click **Next** button after selecting a download site, like <ftp://cygwin.mirror.rafal.ca>.

You can now select which packages to install on your laptop. Below are the packages to select. Click on **Skip** next to the package name to install.

Admin Category

1. Select "**cron: Vixie's cron**".

Devel Category

1. Select "**gcc-core: GNU Compiler Collection (C, OpenMP)**".
2. Select "**Gdb: The GNU Debugger**".
3. Select "**make: The GNU version of the 'make' utility**".

Editors Category

1. Select "**vim: Vi Improved – enhanced vi editor**".

Net Category

1. Select "**openssh: The OpenSSH server and client programs**".
2. Select "**openssl-devel: The OpenSSL development environment**".

Once the above packages have been selected, click the **Next** button. If you see **Resolving Dependencies** window, click **Next** button. The above packages will then be downloaded and installed onto your laptop. Once the download completes, the Create Icons window will appear. Select **Create Icon on Desktop** and **Add Icon to Start Menu**, then click the **Finish** button.

To run cygwin commands when you open a Command Prompt window, like “ls -l”, you can update your PATH variable to include the cygwin binary directory. To do this:

1. Click on the **Start Menu**.
2. Select **Control Panel**.
3. Select **System**.
4. Select **Advanced System Settings**.
5. Click on the **Environment Variables ...** button.
6. Select **PATH**.
7. Click on the **Edit ...** button.
8. Append to the existing pathname the following: “; C:\cygwin64\bin” (without the double quotes).
9. Click **Ok** button.
10. Click **Ok** button.
11. Exit out of the Control Panel window.

To test this change:

1. Click on the **Start Menu**.
2. Select **All Programs**.
3. Select **Accessories**.
4. Click on **Command Prompt** to open a new window.
5. Type: **ls -l**

If you see a long listing of the files in the directory, the PATH change worked.

We recommend moving the **setup_x86_64.exe** file to the **C:\cygwin** directory. Now if you need to update a package or download a new package, you can easily locate the binary file to run.

Contact +1 Software Engineering on where to download +1Copybook. After downloading the **cb.exe** and **de.exe** files to your laptop, copy or move these two files to the **C:\cygwin64\bin** directory.

You are now done installing Cygwin. By opening a Command Prompt window, you can run +1Copybook by running the **cb** command. To test, run: **cb -h**