

Win32CompileCygwin

From RetroShare Wiki

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Introduction

This is a guide for Windows users with a step-by-step instruction to download, install, configure and build your libretroshare.a .

This guide uses **Cygwin** a Linux-like environment for Windows used for compilation of the libretroshare.a .

Start off by creating a RetroShare and a download folder on your hard drive where you can put all the installation files:

```
C:\Downloads
```

For further reference, the assumption is made that the local user will be 'Administrator'.

Download and Install Cygwin

Download the latest Cygwin setup and save it in your download location:

```
C:\Downloads\
```

More info about Cygwin can be found at <http://www.cygwin.com> or <http://sourceware.org/cygwin>

Selecting Cygwin packages to install

Run the setup program with the following options:

1 Next

2 Installation type : Install from Internet (default) NEXT

3 Root directory : C:\cygwin (default) NEXT

4 Local Package directory : C:\cygwin\download (your download location) NEXT

5 Internet Connection : Direct Connection (preferred, if it fails try another) NEXT

6 Select a mirror close to you, Choose Download Site : Choose a download site closest to you (FTP preferred)NEXT

7 Select the following packages:

```
Devel -> gcc, gcc-g++, gdb, make, patchutils, subversion
Utils -> diffutils
Web    -> wget
```

8 NEXT

9 FINISH

Download and Install QT4 Opensource for Windows

Download the QT4 Opensource for Windows (Qt with the MinGW compiler): qt-win-opensource-4.4.3-mingw.exe after download finished Install it and go to the next step.

Download and Unpack RetroShare Build Kit

Download the RetroShareBuild-2008-11-26.zip and save it in your download location:

```
C:\Downloads\
```

So you have downloaded it, now unzip into this directory:

```
C:\Downloads\RetroShareBuild
```

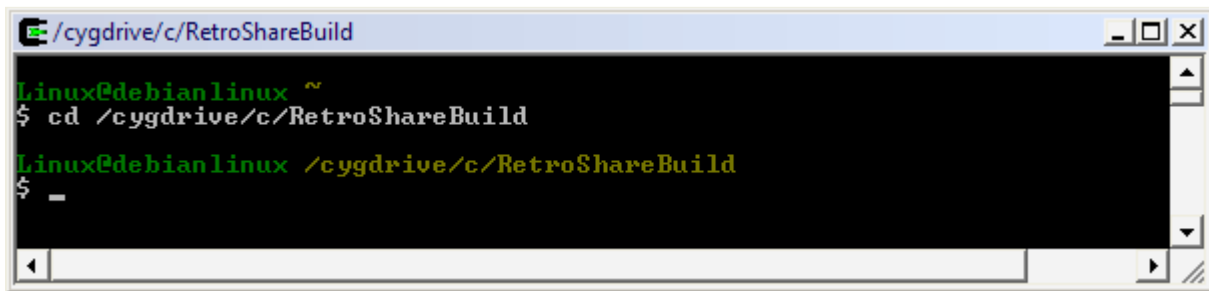
The following Picture shows the command to start cygwin in a path, unpack into

```
C:\RetroShareBuild
```

Start the cygwin shell

cd to the directory with this buildkit. use cd .. to go to the top level several times. then "cd /cygdrive/" is the command and then add the path, where you unzipped the RetroShareBuild folder:
"c/RetroShareBuild"

```
cd /cygdrive/c/RetroShareBuild
```



In the end the command was successful, if you just have a "\$" in the next line, as the pic shows.

Run the scripts

run the scripts in order (by default downloads this Build Kit SVN Revision 767 for compile! -> the SVN for Retroshare 767 is meant, as we today have SVN 1047 for retroshare already, maybe the script needs to be updated to download retroshare SVN 1047 at least ???):

```
./1_make_build_env.sh
```

Message "Error: miniupnp.a is only needed" is ok, as only miniupnp.a is needed.

```
./2_prepare_retroshare.sh
```

Now you need to accept the SVN sf.net server certificate, press "p" for permanent accept. Indeed the version SVN 767 is checked out, but after compile cygwin gives you the notice:

=====

" run 3 and 4 in cygwin, and if it works, update with this command (in qt command prompt I guess): cd src/RetroShare-work; svn-update; make clean " If you later test this command, it is not working, try just "make clean" It should automatically open the right path, if not, try "cd src/RetroShare-work; svn-update; make clean" or go to the "src/RetroShare-work"-path with "cd src" command.

The command SVN-update is not working for cygwin here. So change in the file "2_prepare_retroshare.sh" (open with txt editor or better VIM) the revision 767 (line 3 of the sh-file) to a higher, more actual revision and start the whole process new.

==

so we live now with version SVN 767 and do first step 3 and 4:

```
./3_build_libretroshare.sh
```

Several warnings in the build notices.. we can ignore.

when is don leave the cygwin shell.

Build RetroShare Gui

now start with double click 4_build_retroshare-gui.bat

after compiling is finished you get the RetroShare Windows binary in

```
src/RetroShare-work/retroshare-gui/src/release/RetroShare.exe
```

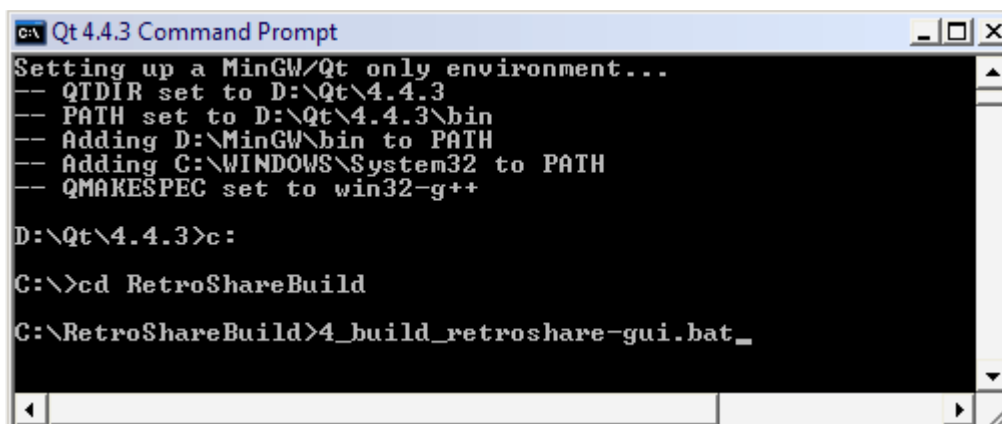
When you have trouble that the *.bat will not start?, then open "QT 4.4.3 Command Prompt":

"cd .." is the command to get one path higher. then use "cd downloads" and then "cd RetroShareBuild" to find the right path. Then you can type the command "4_build_retroshare-gui.bat"

(be sure that in the filename: the _ _ follows a "-" (minus), not again "_")

and qt compiles...

cd:ing to build-kit dir and run *.bat-file



```
C:\ Qt 4.4.3 Command Prompt
Setting up a MinGW/Qt only environment...
-- QTDIR set to D:\Qt\4.4.3
-- PATH set to D:\Qt\4.4.3\bin
-- Adding D:\MinGW\bin to PATH
-- Adding C:\WINDOWS\System32 to PATH
-- QMAKESPEC set to win32-g++

D:\Qt\4.4.3>c:

C:\>cd RetroShareBuild

C:\RetroShareBuild>4_build_retroshare-gui.bat_
```

follow the rest of the instructions in doc/readme.txt (looked it up, but there is no more additionally information, so you do not need to look it up).

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