

# cygwin Installation Guide

## Overview

cygwin is a Linux-like environment for Windows. For Windows user who do not want to install complete Linux OS in his computer can download cygwin at <http://cygwin.com/setup.exe>.

## Install cygwin

1. If you already install the cygwin in your computer, you can skip this installation and go to cross compiler installation section.
2. To install the cygwin, please use cygwin installation program, setup.exe

Cygwin Information and Installation

**GNU + Cygwin + Windows = cygwin**

**NEW Cygwin 1.7.1 just released!**

Please note that the **update** from Cygwin 1.5.x to Cygwin 1.7.x might require some **manual changes** afterwards. Most notably the mount point storage has been moved out of the registry into files. User mount points are **NOT** copied into the new user-specific `etc/fstab.d/$USER` file. Rather, every user has to call the `fbincopy-user-registry-fstab` shell script once after the update. **PLEASE** read the new [User's Guide](#) before upgrading your Cygwin installation to 1.7. You're avoiding trouble.

**What Is Cygwin?**

Cygwin is a Linux-like environment for Windows. It consists of two parts:

- A DLL (cygwin1.dll) which acts as a Linux API emulation layer providing substantial Linux API functionality.
- A collection of tools which provide Linux look and feel.

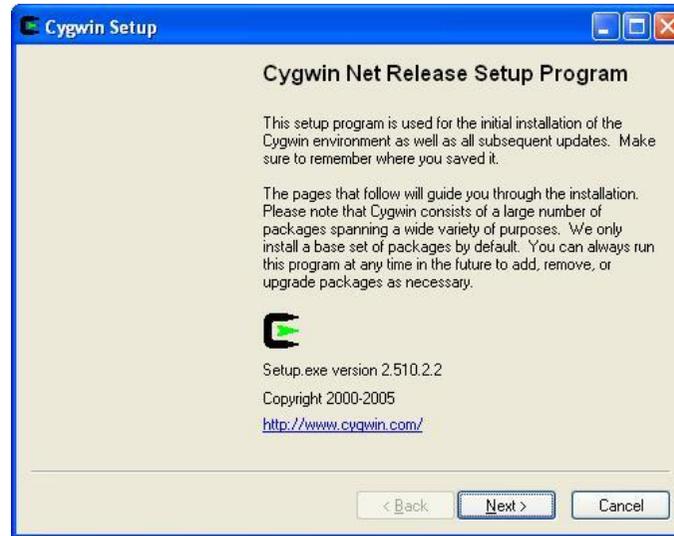
The Cygwin DLL currently works with all recent, commercially released x86 32 bit and 64 bit versions of Windows, with the exception of Windows CE.

Note that the official support for Windows 95, Windows 98, and Windows Me has been discontinued with the latest Cygwin major release 1.7. For users who are still running one of these legacy versions of Windows, see [below](#).

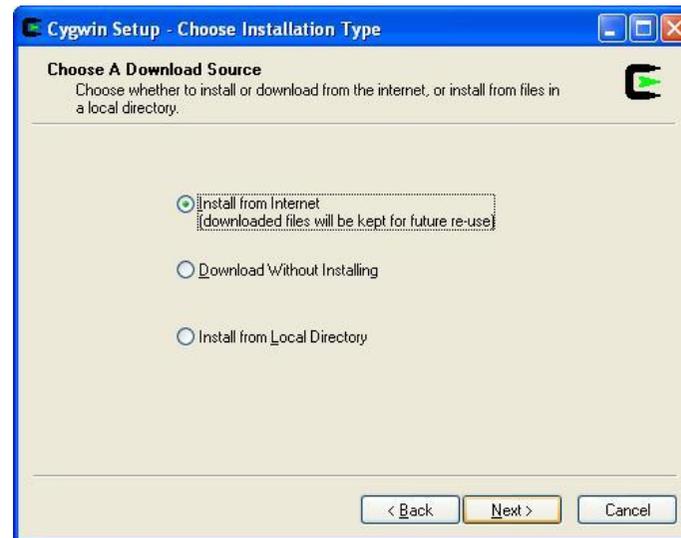
**What Isn't Cygwin?**

[Cygwin Home](#)  
[Cygwin/IX Home](#)  
[Red Hat Cygwin Product](#)  
[Community](#)  
• [Reporting Problems](#)  
• [Mailing Lists](#)  
• [Newsfeeds](#)  
• [Gold Stars](#)  
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[Documentation](#)  
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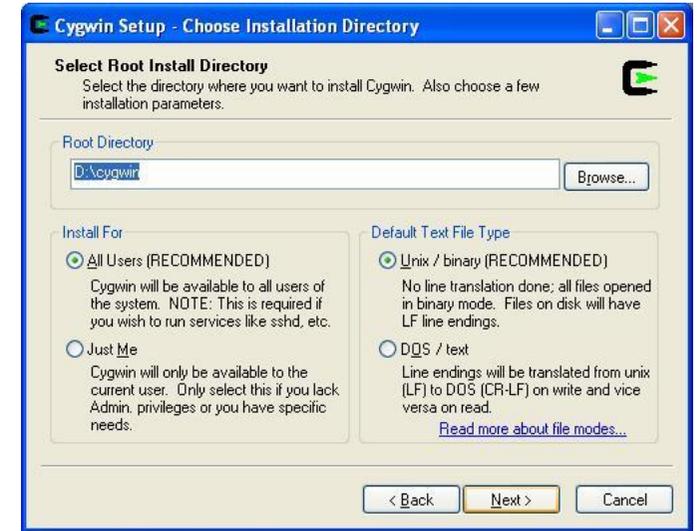
3. Please click setup icon to install the cygwin to your computer



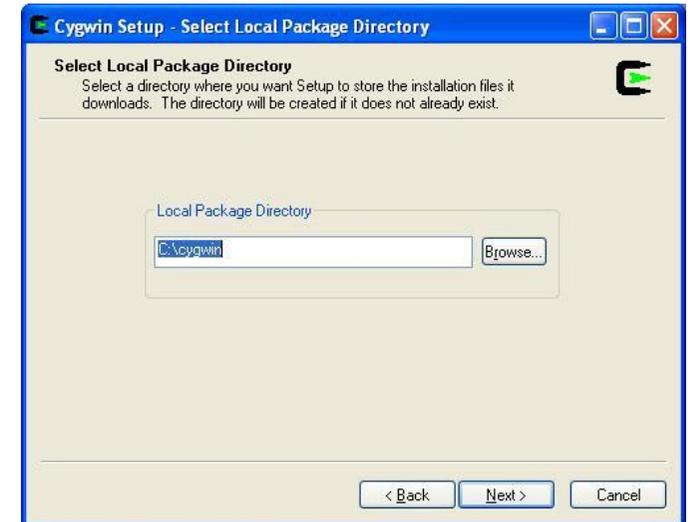
4. click the installation from Internet option



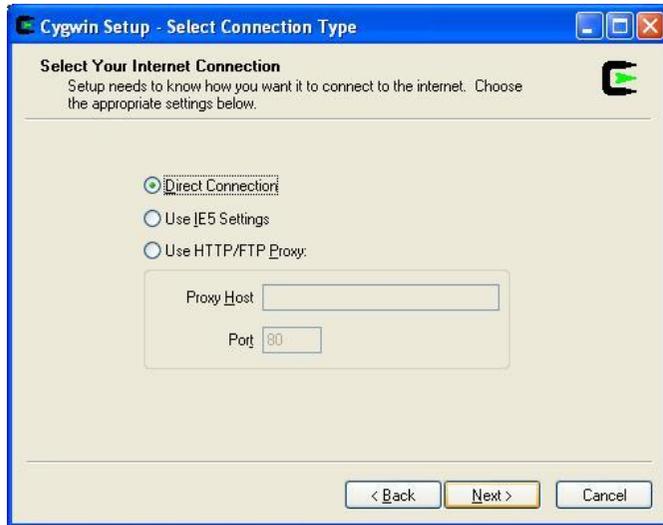
5. Select the cygwin directory c:\\cygwin and click next



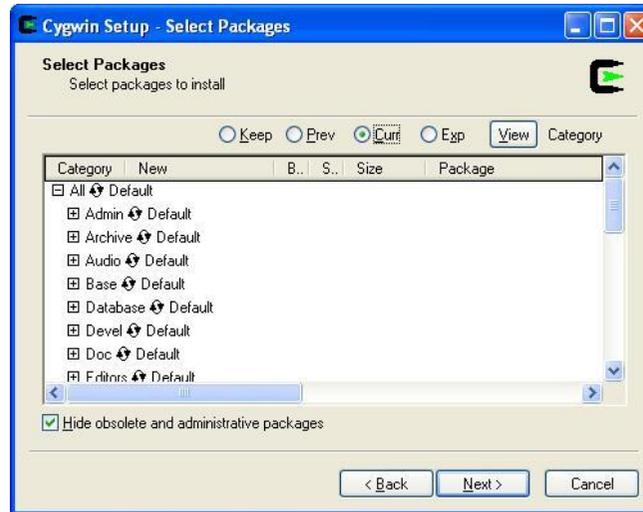
6. Click next to continue



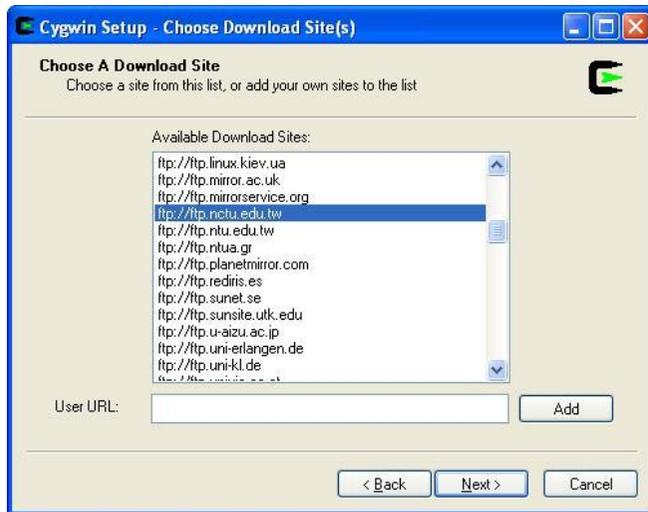
7. Select your Internet connection



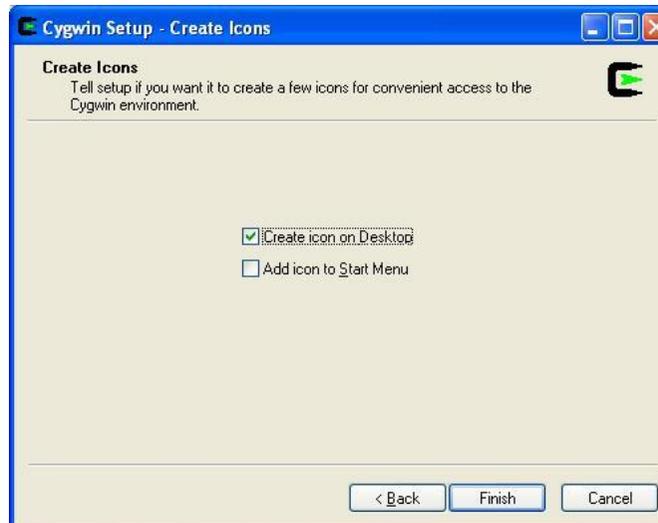
9. Click next button to install the default packages



8. Choose a download site from Internet



10. Click finish to complete the installation.

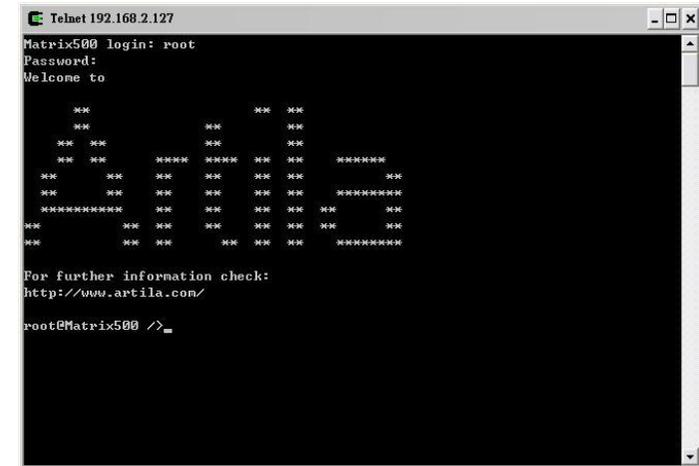


## Install GNU cross compiler for cygwin

To install the cross compiler for cygwin, please unzip \\arm-linux-cygwin.zip to C:\cygwin. Two directories, \home and \usr will be created. There are many example programs are available under \home\matrix500\examples. You can try to compile the example using the cross compiler for cygwin.

## Start cygwin

Click the cygwin icon to start the cygwin program. Then you will find a Linux like windows appear. Now you can telnet Matrix 500's IP to connect it.



To compile the example program, simple use the Makefile of the example program and type *make clean* to clean the execution file that had been built and then type *make* to compile the new execution file

