

**## Cygwin (/ˈsɪɡwɪn/ SIG-win) is a Unix-like environment and command-line interface for Microsoft Windows**

Cygwin consists of two parts DLL as a API layer providing POSIX API functionality and extensive collection of software tools and application that provides Unix like look and feel.

Cygwin was originally developed by Cygnus Solutions, which was later acquired by Red Hat. It is free and open source software, released under the GNU General Public License version 3. Today it is maintained by employees of Red Hat, NetApp and many other volunteers.

can use X-Windows system, K Desktop Environment 3, Gnome, Apache etc.

you can install inetd, syslogd, sshd and Apache and other daemons allowing microsoft windows to emulate unix and linux server.

visit <https://en.wikipedia.org/wiki/Cygwin> to download setup

complete installation excess 36 GB of disk space but usable configuration may require 1 or 2 GB .

check `du -sh`

## features

Shells (i.e. command line interpreters): bash, dash, fish, pdksh, tcsh, zsh

File and system utilities: coreutils, findutils, util-linux

Text utilities: grep, sed, diff, patch, awk

Terminals: mintty, rxvt, screen

Editors: emacs, joe, mined, nano, vim

Remote login: ssh, rsh, telnet

Remote file transfer/synchronization: ftp, scp, rsync, unison, rtorrent

Compression/archiving: tar, gzip, bzip2, lzma, zip

Text processing: TeX, groff, Ghostscript

Programming languages: C, C++, Objective-C, Fortran, Perl, Python, Ruby, Tcl, Ada, CLISP, Scheme, OCaml, Prolog

Development tools: make, autotools, flex, bison, doxygen

Version control systems: cvs, subversion, git, mercurial

Servers: Apache, BIND, PostgreSQL, Pure-FTPd, OpenSSH, telnetd, exim, UW IMAP

Clients: Mutt (email), Lynx (web), Irssi (IRC), tin (newsgroups)

## sources:

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