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| **Title:** | Install Portable Executable Software (gnuwin32) |
| Updated: | Jan 27th 2013 |
| Overview: | In this lab we will build an Auto-Install.bat script to automate the installation of portable binaries to our Windows operating system. |
| Task/Activity: | 1. Analyze the Auto-Install.bat script |
|  | 1. Run the installer and verify a successful install |

1. **Analyze the Auto-Install.bat script**

This activity assumes your organization has pre-approved the authenticity and integrity of the portable binaries we are about to install on the system. The GnuWin project (<http://gnuwin32.sourceforge.net/summary.html>) provides Win32 versions of a variety of GNU tools and those with similar open source licenses. The binaries are native ports which means they do not require an emulation layer like Cygwin or Msys—as they are compiled with XP using the GNU C and C++ compilers.

The key to building an automated installer script is to track down all the commands and system changes that are required to successfully install and prepare an executable package(s) for first use; this includes any system environment and registry variables that may need to be altered.

1. For this activity, to save time/effort required to type all the commands for the script, your instructor will provide you with a working copy. Before executing the install script, review the printed text below and complete the blank remark fields. If necessary, use internet searches to research and complete the remarks.

**@ECHO OFF**

**SETLOCAL**

**SET INSTALLDRIVE=%CD%**

**REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**REM**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM**

**REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**IF EXIST %systemdrive%\gnuwin32\nul GOTO ERROR0**

**REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**REM**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM**

**REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**CD /d "%INSTALLDRIVE%"**

**unzip gnuwin32.zip -d %systemdrive%\**

**IF NOT ERRORLEVEL 0 GOTO ERROR1**

**REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**REM**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REM**

**REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**SETX PATH "%PATH%;C:\gnuwin32\bin" /M**

**IF NOT ERRORLEVEL 0 GOTO ERROR2**

**GOTO DONE**

**:ERROR0**

**ECHO.**

**ECHO.**

**ECHO It appears that %systemdrive%\gnuwin32 already**

**ECHO exists.**

**ECHO.**

**ECHO.**

**pause**

**goto :EOF**

**:ERROR1**

**ECHO.**

**ECHO.**

**ECHO Error extracting with: unzip gnuwin32.zip -d %systemdrive%\**

**ECHO Check source and destination**

**ECHO.**

**ECHO.**

**pause**

**goto :EOF**

**:ERROR2**

**ECHO.**

**ECHO.**

**ECHO Error adding C:\gnuwin32\bin to path statement.**

**ECHO Check that SETX exists.**

**ECHO.**

**ECHO.**

**pause**

**goto :EOF**

**:DONE**

**ECHO.**

**ECHO.**

**ECHO. GNUWIN32 install completed.**

**ECHO.**

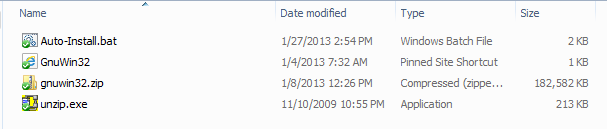
**ECHO.**

**pause**

1. **Run the installer and verify a successful install**

Note: This installer will make changes to your system PATH variable and install a variety of open source binaries on your system. Ensure you are authorized to perform this activity on your system.

1. Navigate to the “**Install\GnuWin32**” directory on your StudentCD/DVD and double-click on **Auto-Install.bat**



The installer will extract all of the necessary files into the \gnuwin32 folder and update the system PATH variable.

1. Once the install in complete, open a cmd shell and verify the gnuwin32 binaries were installed successfully.

**C:\>ls -l**

**C:\>ddate**