



EC5ME
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MANUFACTURING AND ELECTRONICS



國立清華大學
NATIONAL TSING HUA UNIVERSITY

SYNOPSYS®
Silicon to Software™

Workshop on Synopsys ARC CPU with TensorFlow Lite

Tutorial 1 – Environment Installation

主辦單位：國立清華大學電機系、新思科技

協辦單位：智慧製造電子應用聯盟

指導單位：教育部資訊及科技教育司

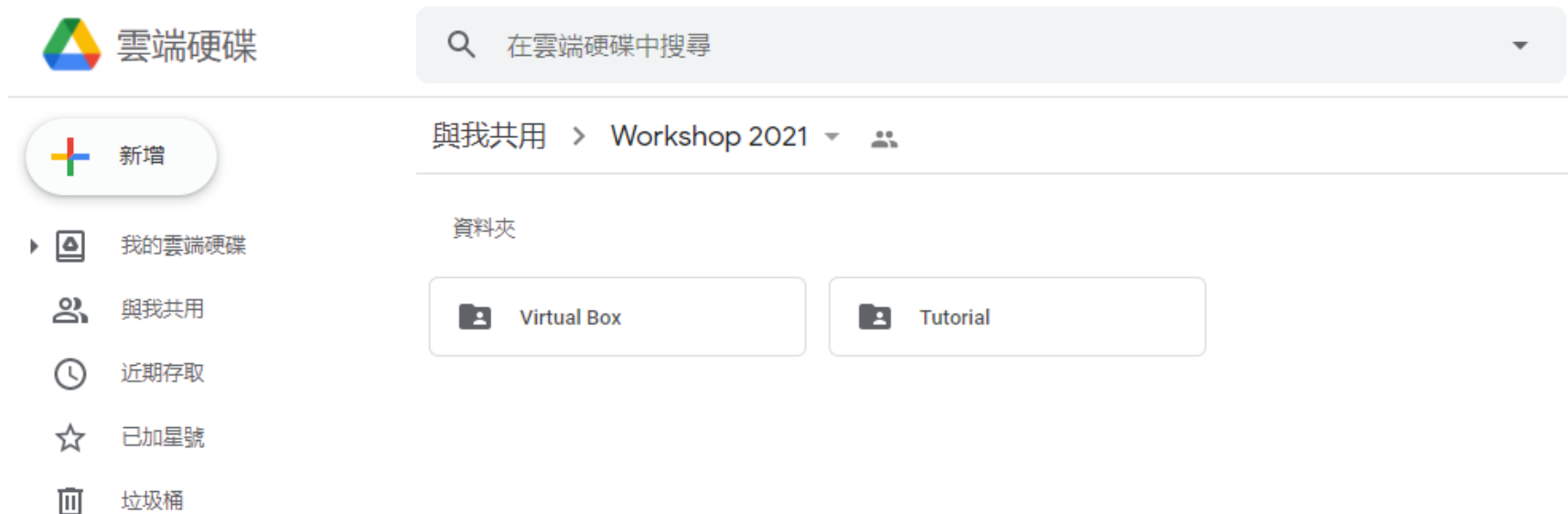
Download

Workshop Google Drive :

Copy the link below and search it in Google

Do **not** just click it!

<https://drive.google.com/drive/folders/15gbcCkZDxUxfITWtAprPqIHkD5nbxKjP?usp=sharing>





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Install VirtualBox



VirtualBox Installation

- https://www.virtualbox.org/wiki/Downloads?fbclid=IwAR12O6-1e_Dg00CFt4xuChqjJSuGKQwgVZDZa3MI-I2QojYsEq9ILe3bWlQ



The screenshot shows the VirtualBox website's download page. On the left is a sidebar with navigation links: About, Screenshots, Downloads, Documentation (with sub-links for End-user docs and Technical docs), Contribute, and Community. The main content area features the VirtualBox logo and the heading 'Download VirtualBox'. Below this, it states: 'Here you will find links to VirtualBox binaries and its source code.' A section titled 'VirtualBox binaries' explains that by downloading, users agree to the terms and conditions. It provides links for the latest VirtualBox 6.0 packages and VirtualBox 5.2 packages. The 'VirtualBox 6.1.18 platform packages' section lists links for Windows hosts, OS X hosts, Linux distributions, Solaris hosts, and Solaris 11 IPS hosts. Further down, it mentions that binaries are released under the GPL version 2, provides a link to the changelog, and suggests comparing checksums to verify package integrity. A note recommends upgrading guest additions after upgrading VirtualBox. At the bottom, there is a link for the VirtualBox 6.1.18 Oracle VM VirtualBox Extension Pack.

VirtualBox
Download VirtualBox

Here you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 6.0 packages, see [VirtualBox 6.0 builds](#). Please also use version 6.0 if you need it.

If you're looking for the latest VirtualBox 5.2 packages, see [VirtualBox 5.2 builds](#). Please also use version 5.2 if you still need it.

VirtualBox 6.1.18 platform packages

- [Windows hosts](#)
- [OS X hosts](#)
- [Linux distributions](#)
- [Solaris hosts](#)
- [Solaris 11 IPS hosts](#)

The binaries are released under the terms of the GPL version 2.

See the [changelog](#) for what has changed.

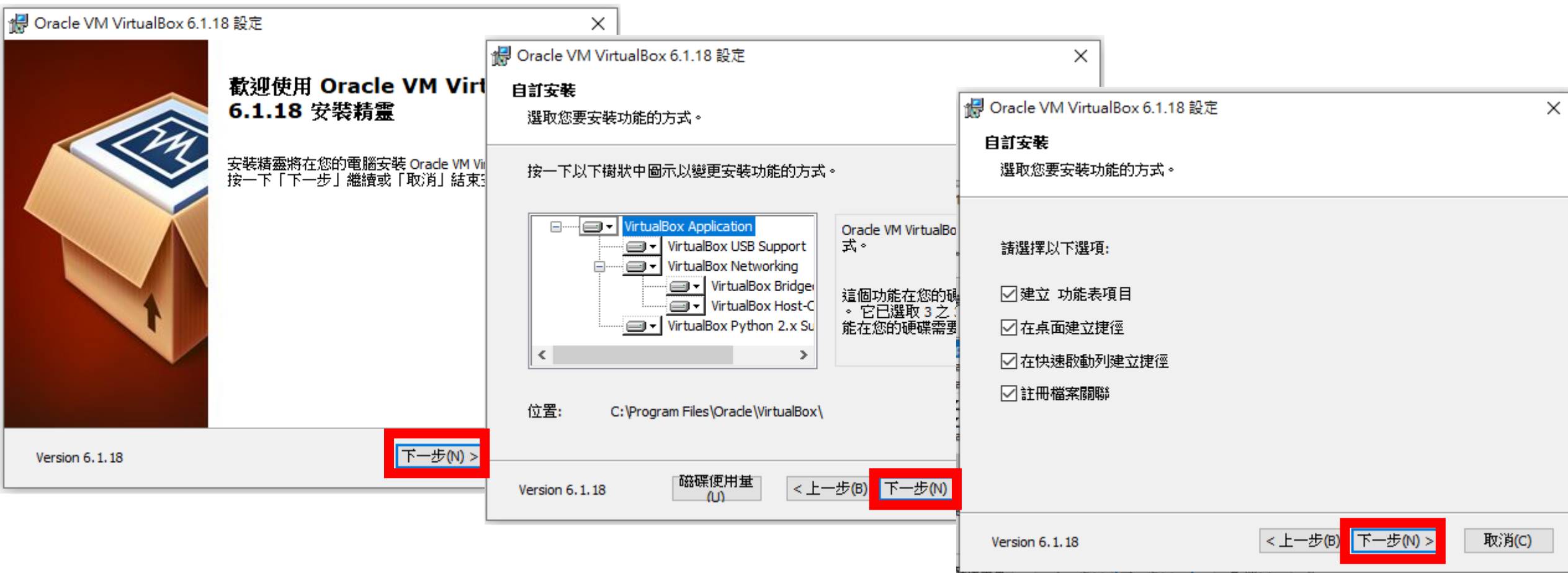
You might want to compare the checksums to verify the integrity of downloaded packages. *The SHA256 checksums should be used.*

- [SHA256 checksums](#), [MD5 checksums](#)

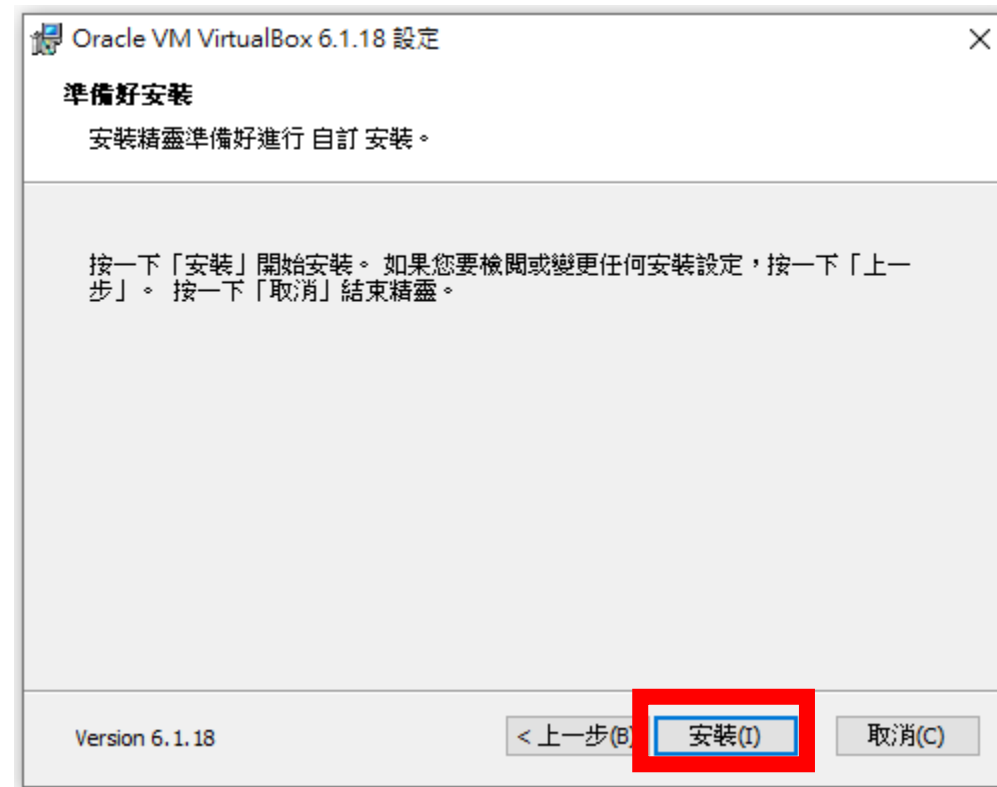
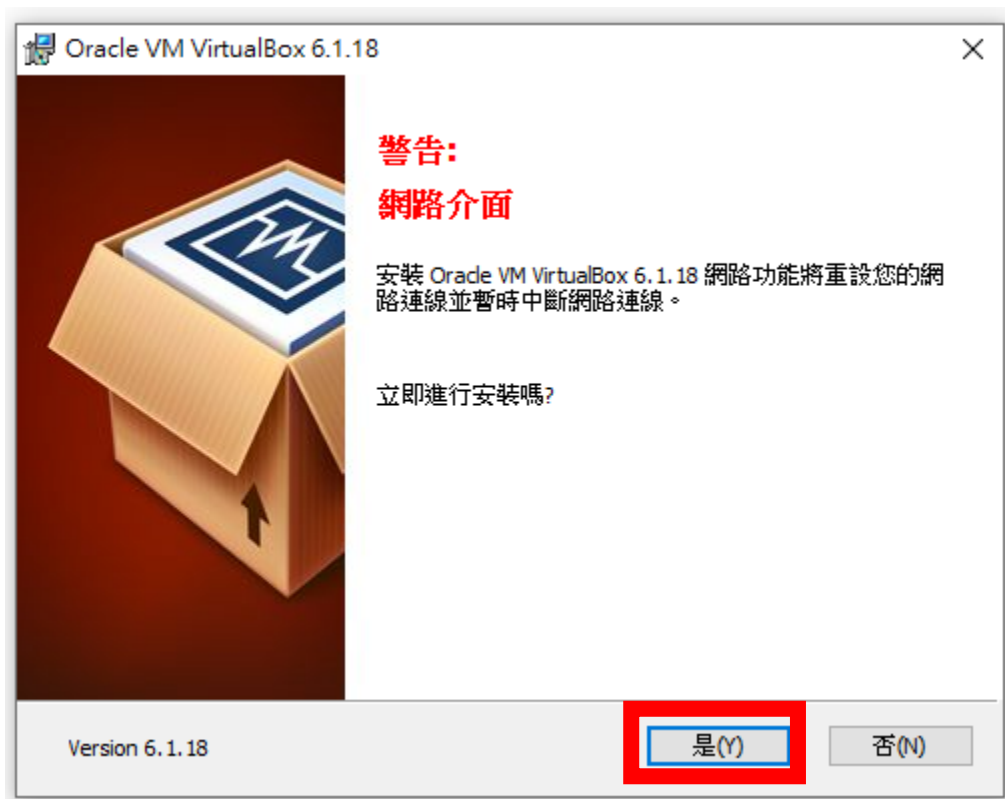
Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

VirtualBox 6.1.18 Oracle VM VirtualBox Extension Pack

VirtualBox Installation



VirtualBox Installation



VirtualBox Installation





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Install Cygwin



Cygwin64 installation

- Go to <https://cygwin.com/install.html>

Cygwin

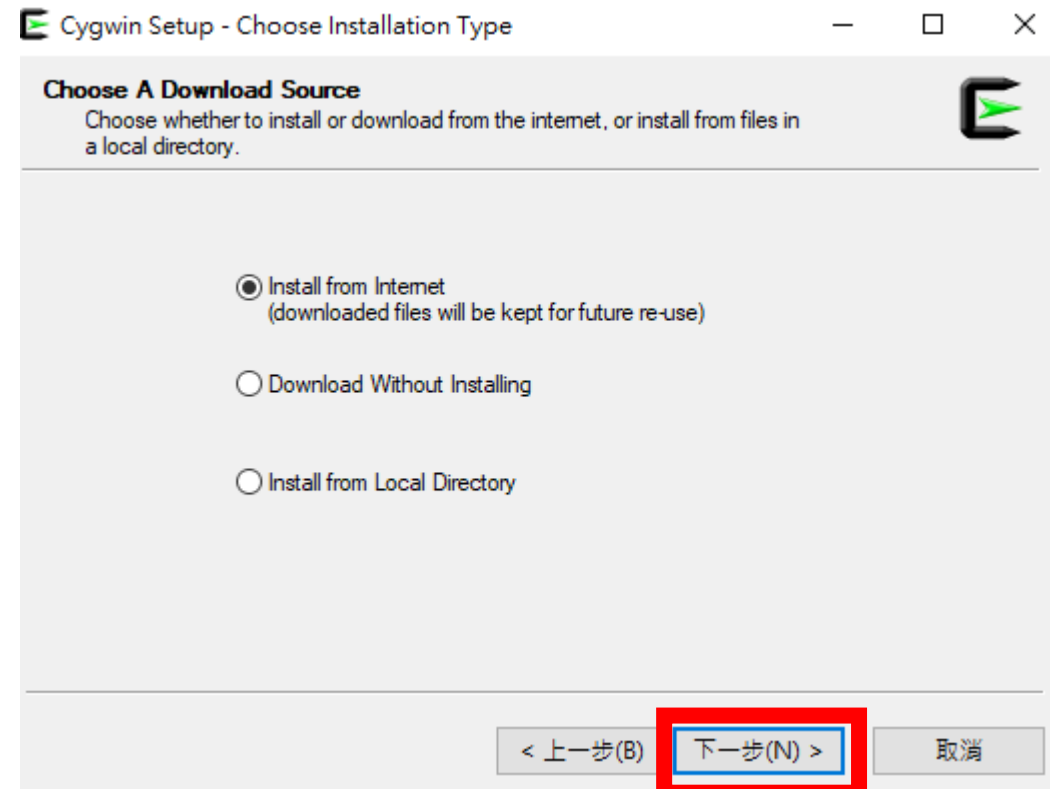
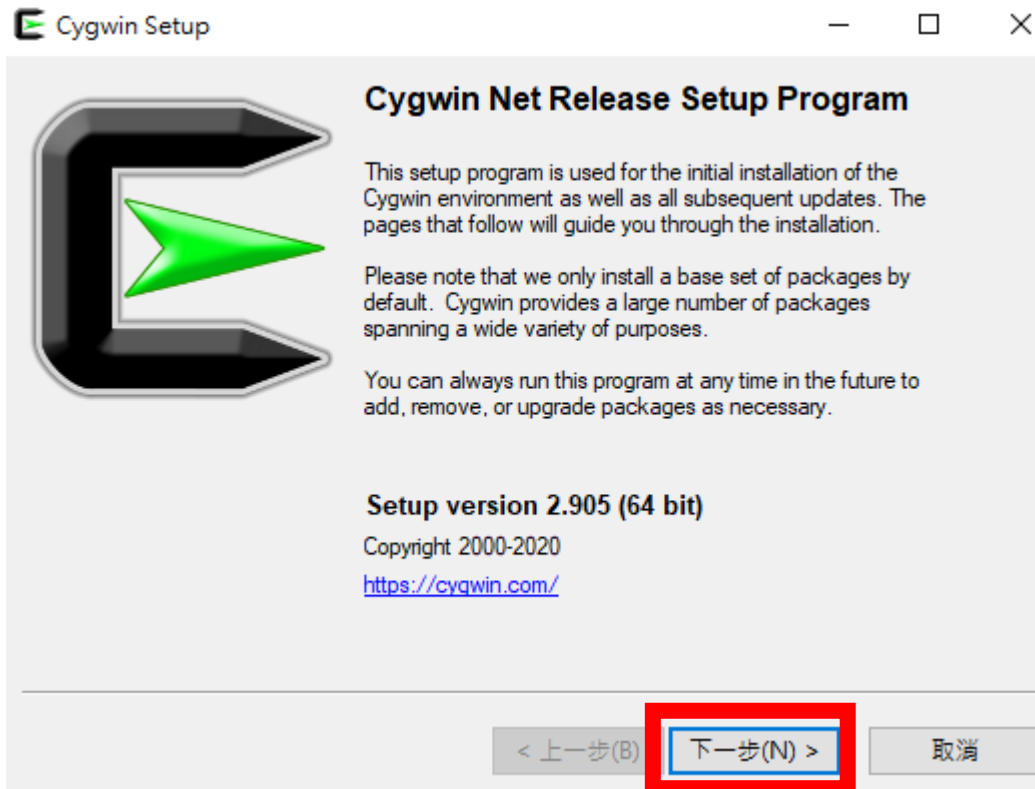
Get that [Linux](#) feeling - on Windows

Installing and Updating Cygwin Packages

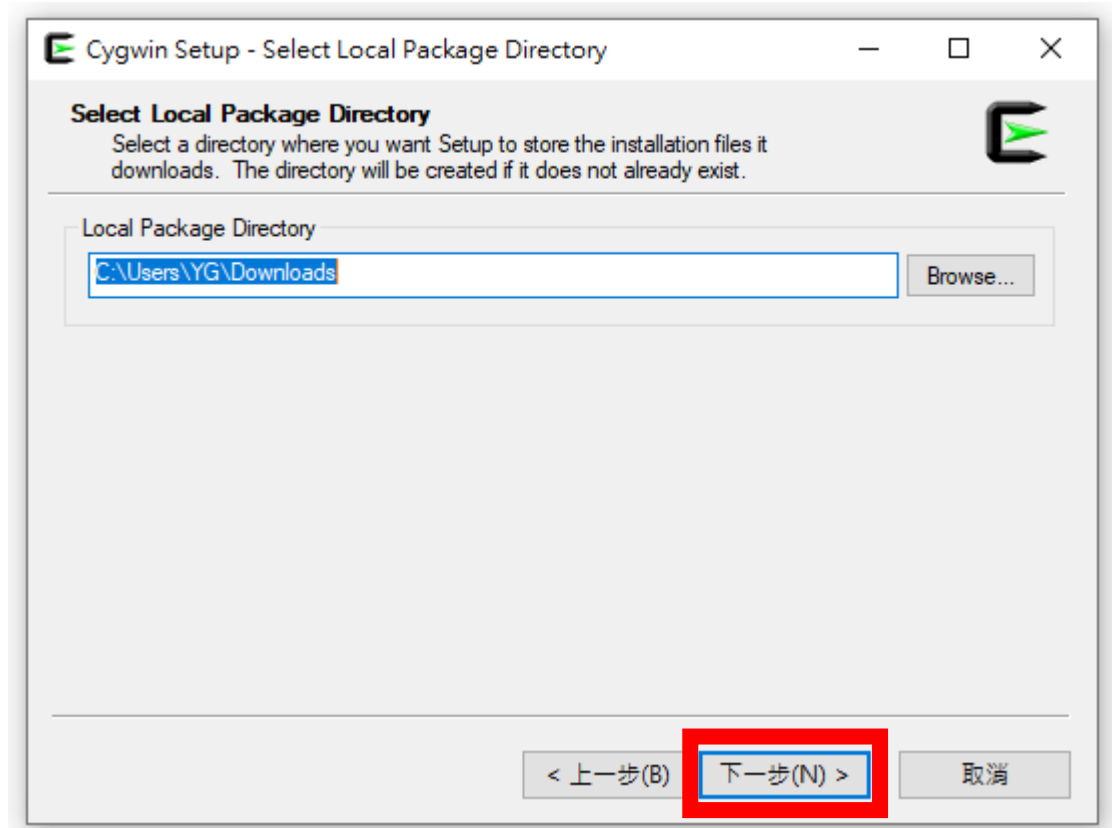
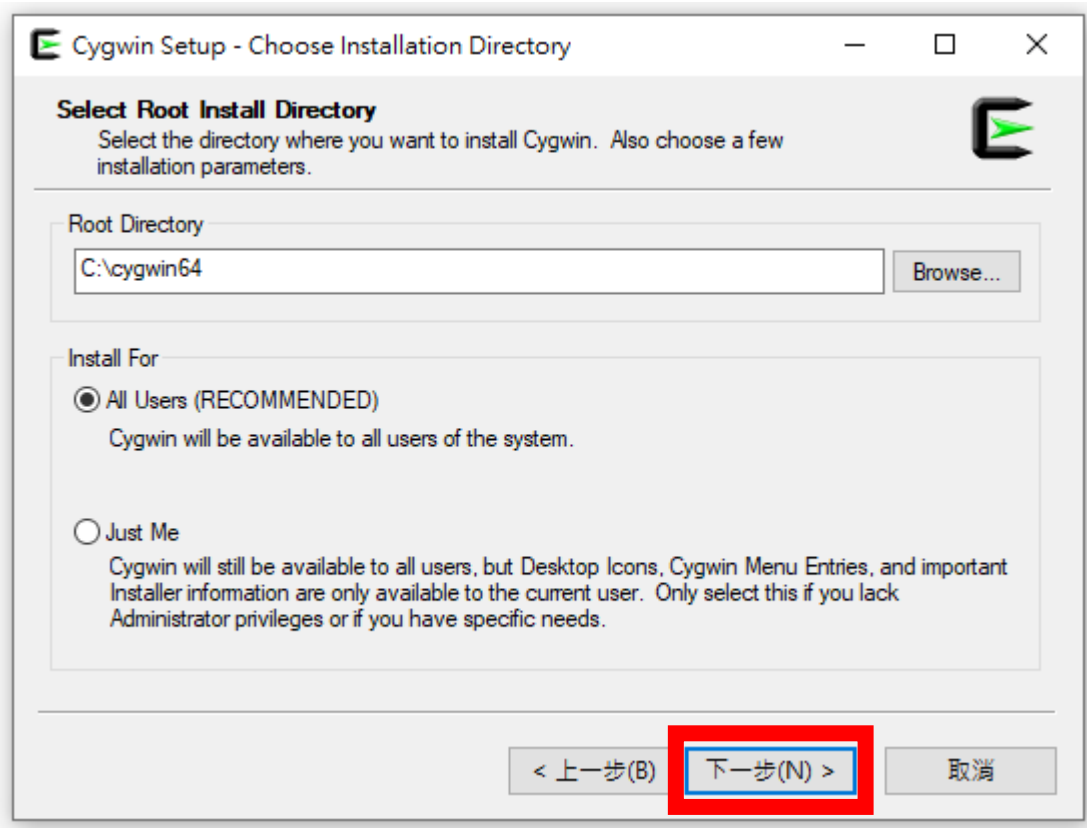
Installing and Updating Cygwin for 64-bit versions of Windows

Run [setup-x86_64.exe](#) any time you want to update or install a Cygwin package for 64-bit windows. The [signature](#) for [setup-x86_64.exe](#) can be used to verify the validity of this binary.

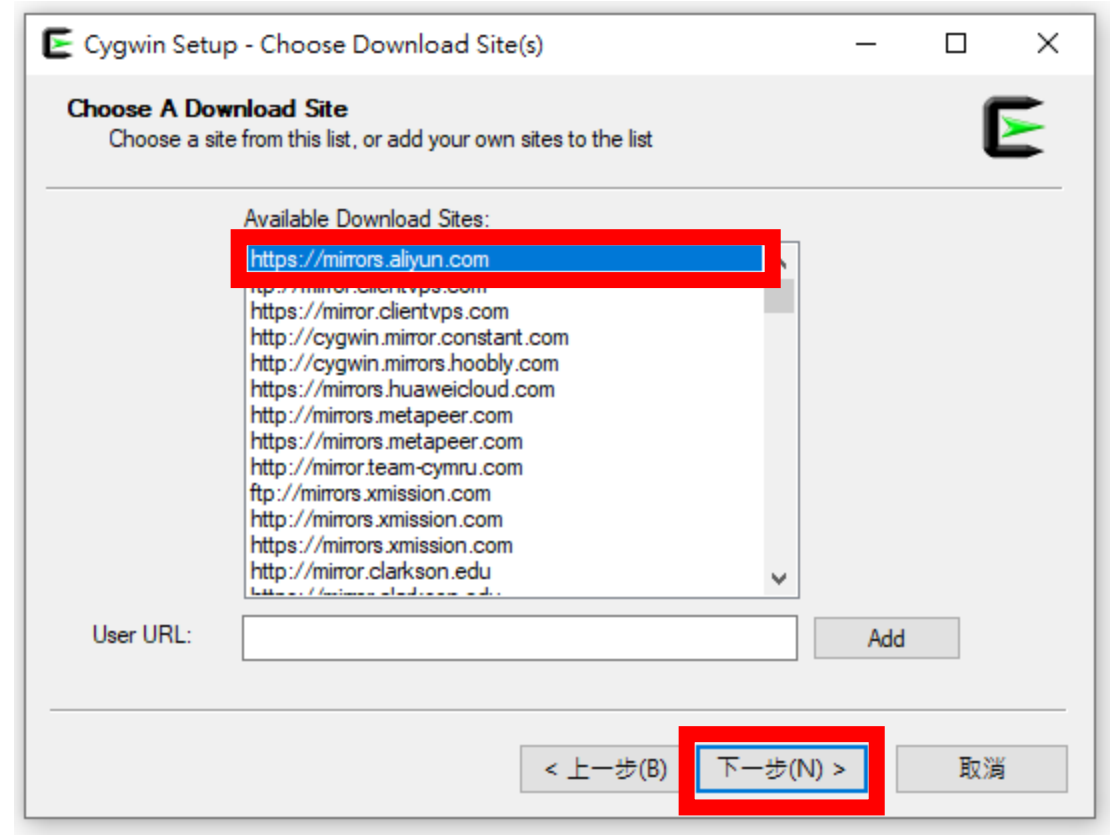
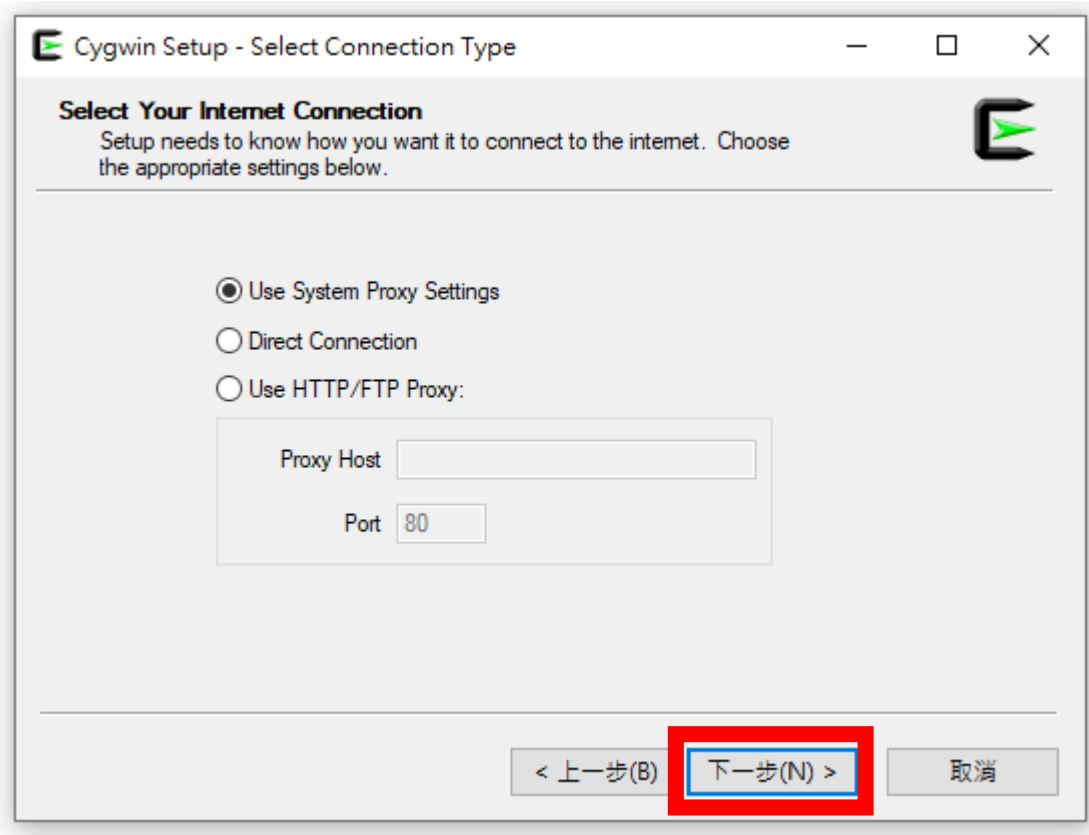
Cygwin64 installation



Cygwin64 installation

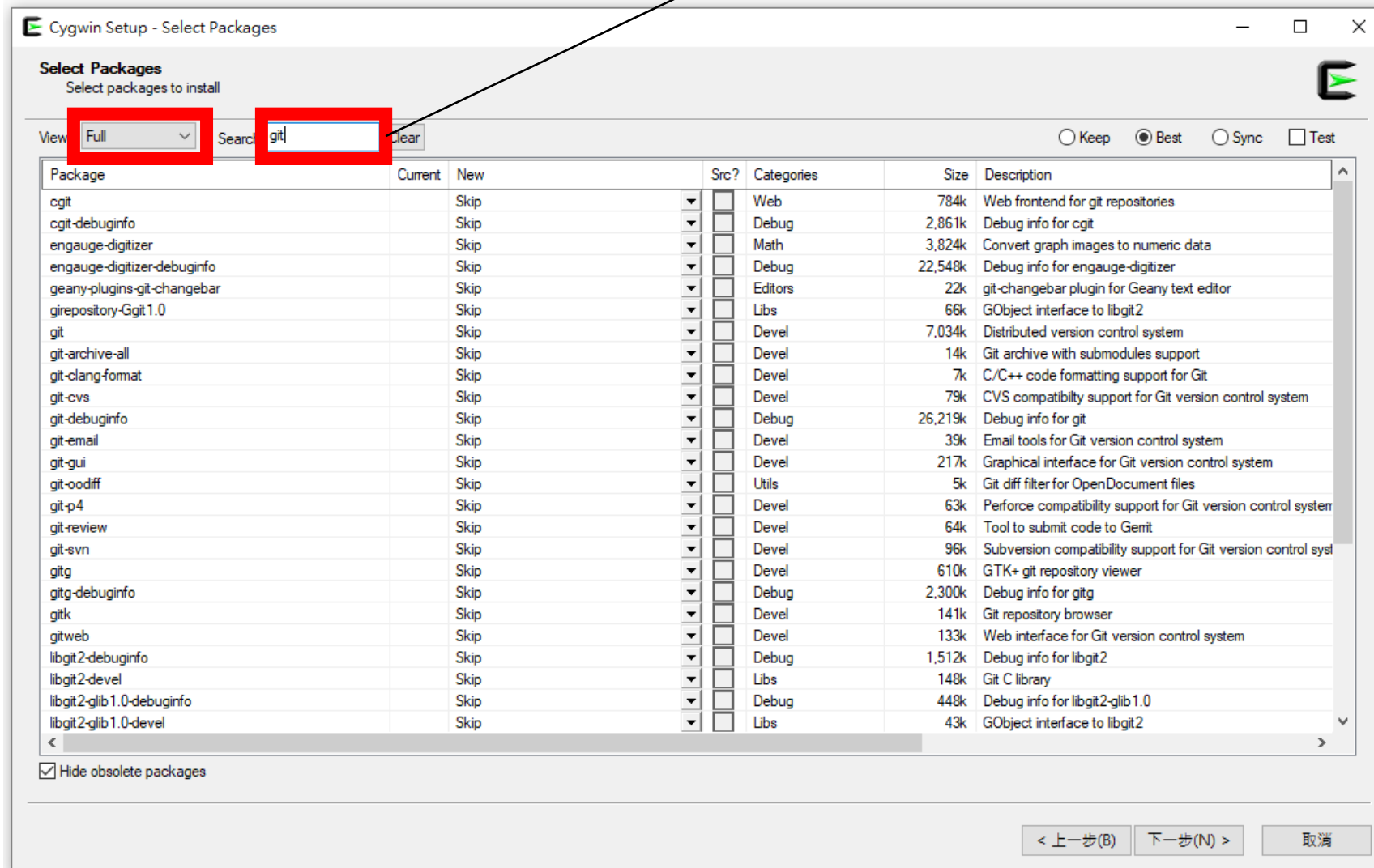


Cygwin64 installation

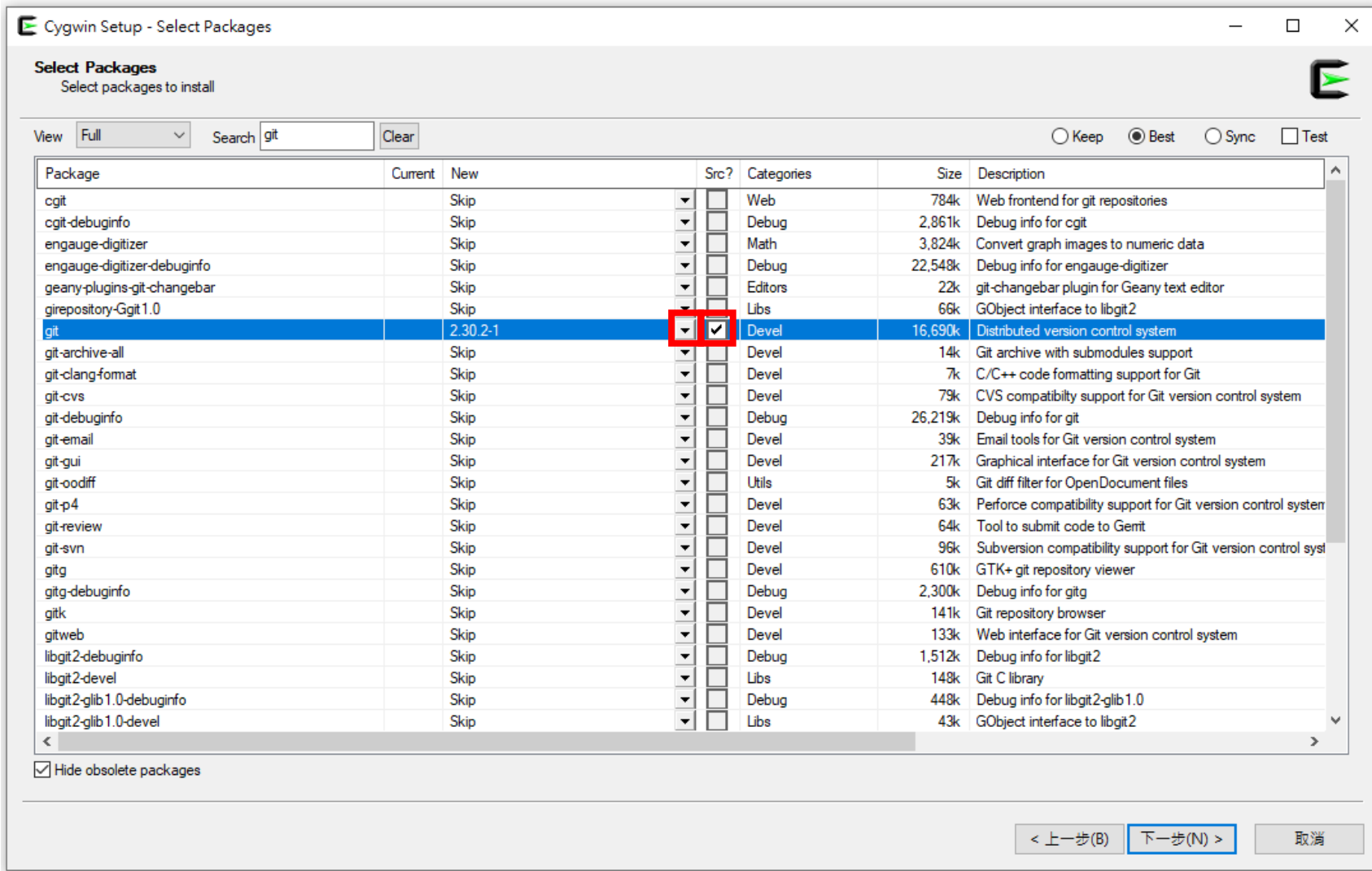


Cygwin64 installation

Search: git , xxd, make, unzip, curl



Cygwin64 installation



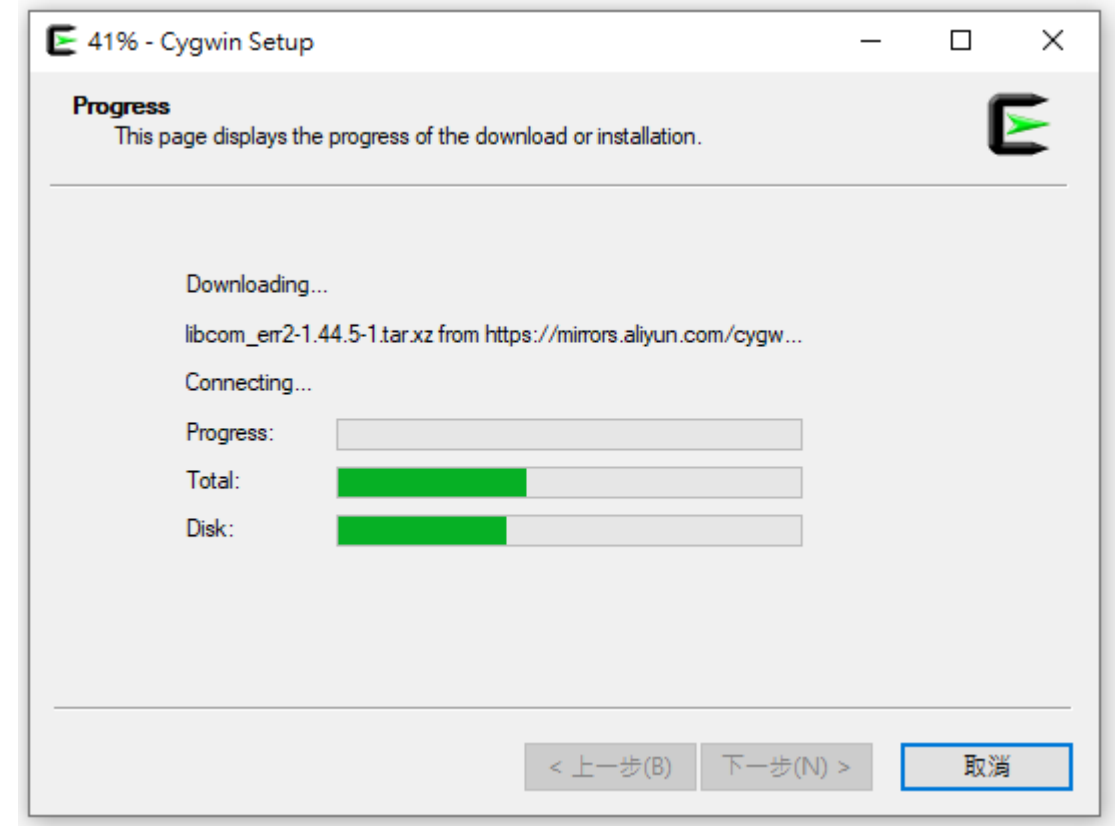
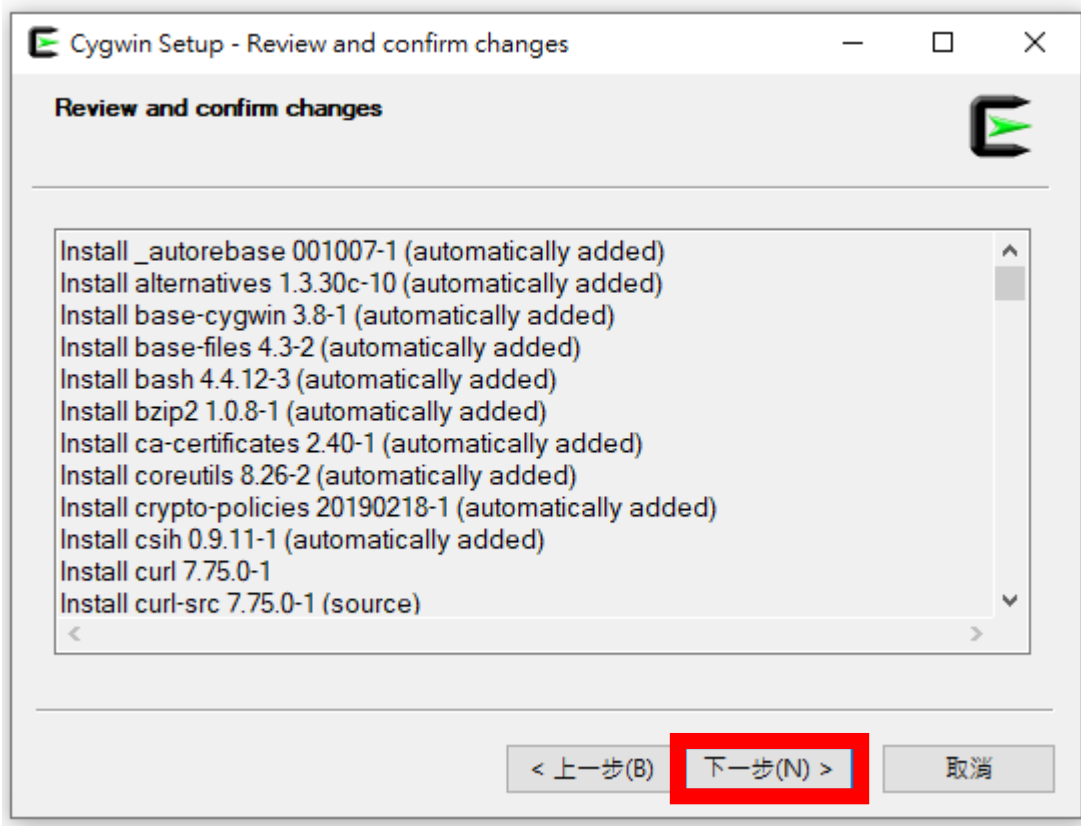
1. 按 選擇最新版本

2. 打勾

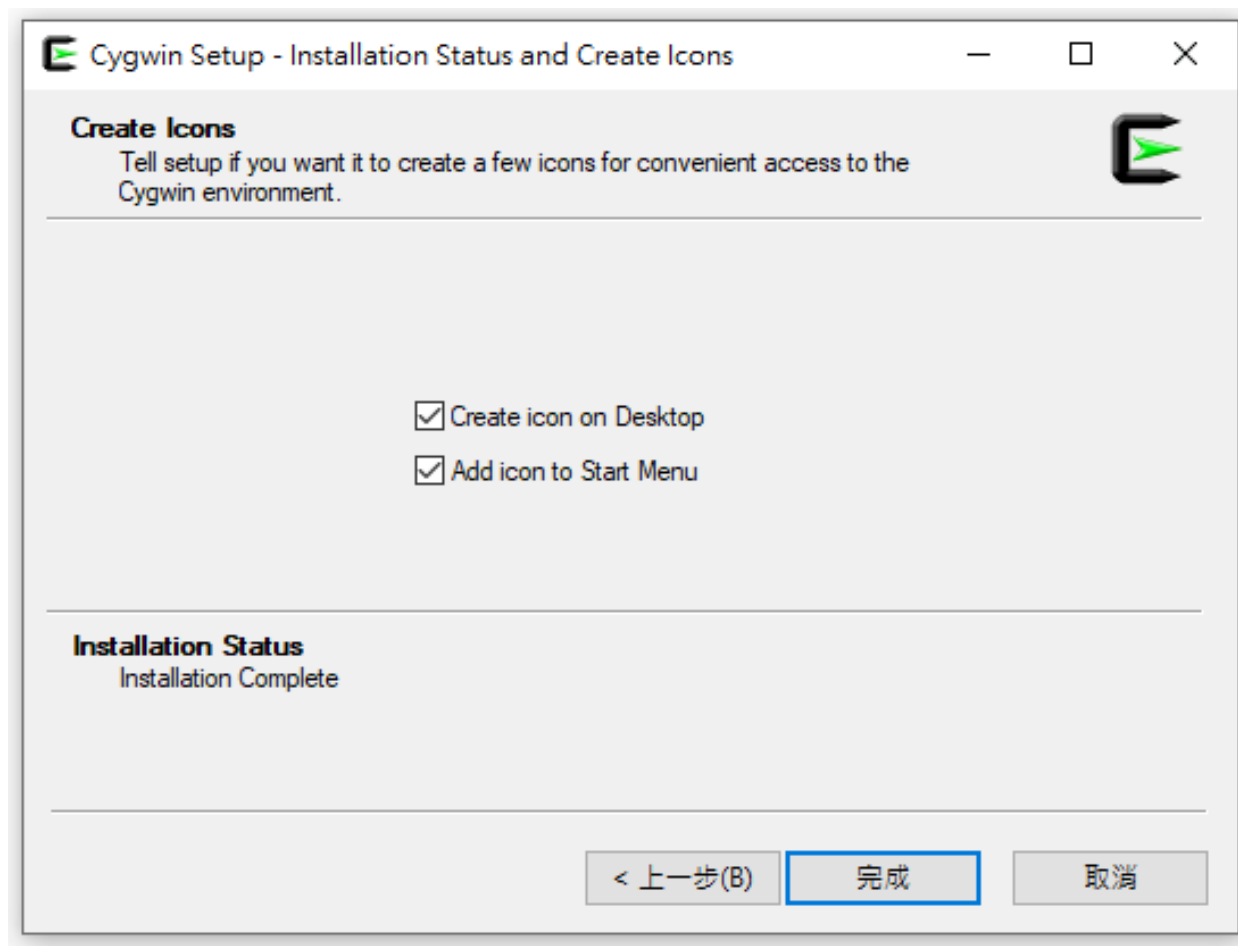
3. 請重複以上步驟在Search的欄位依序搜尋: git, xxd, make, unzip, curl 且選擇版本&打勾

4. 上述完成後再按

Cygwin64 installation



Cygwin64 installation





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Install Teraterm



TeraTerm Installation

- Go to <https://ttssh2.osdn.jp/index.html.en>

Tera Term Home Page

[\[Project page\]](#) [\[License\]](#) [\[Download\]](#) [\[Document\]](#) [\[Snapshot\]](#) [\[SourceCode\]](#) [\[Users ML\]](#) [\[Commit ML\]](#) [\[Development\]](#)

8468346 (Today: **1067** Yesterday: **2515**)

TeraTerm Project

TeraTerm Project would have been developed terminal emulator "Tera Term" and SSH module "TTSSH". This software is open source software in [Project Page](#) on OSDN.

Download

Latest version is available from OSDN [download page](#). Current latest release is [4.105](#).

If you can get latest development version, the source code is available from [SVN repository](#). And [snapshot](#) is here. Here is the [Old release](#), however we recommend using the latest release as possible.

Manual

Following manuals are available.

These manuals are the latest contents. New feature not including the release version will be written.

However, a user can check next version contents. Tera Term developer can preliminarily respond the user request.

Teraterm Installation

- Download teraterm-4 .105.exe

Download List

Project Description

Tera Term is [Tera Term Pro 2.3](#) succession version and is being officially recognized by the original author. Tera Term is open source free software terminal emulator.

System Requirements

Operating System: Windows 7, Windows 95/98/ME, Windows NT/2000

Download Package list

Tera Term (37 items) Hide 🔗

4.105 (2 files) Hide 🔗

Name
teraterm-4.105.exe 🔗
teraterm-4.105.zip 🔗

4.104 (2 files) Show 🔗

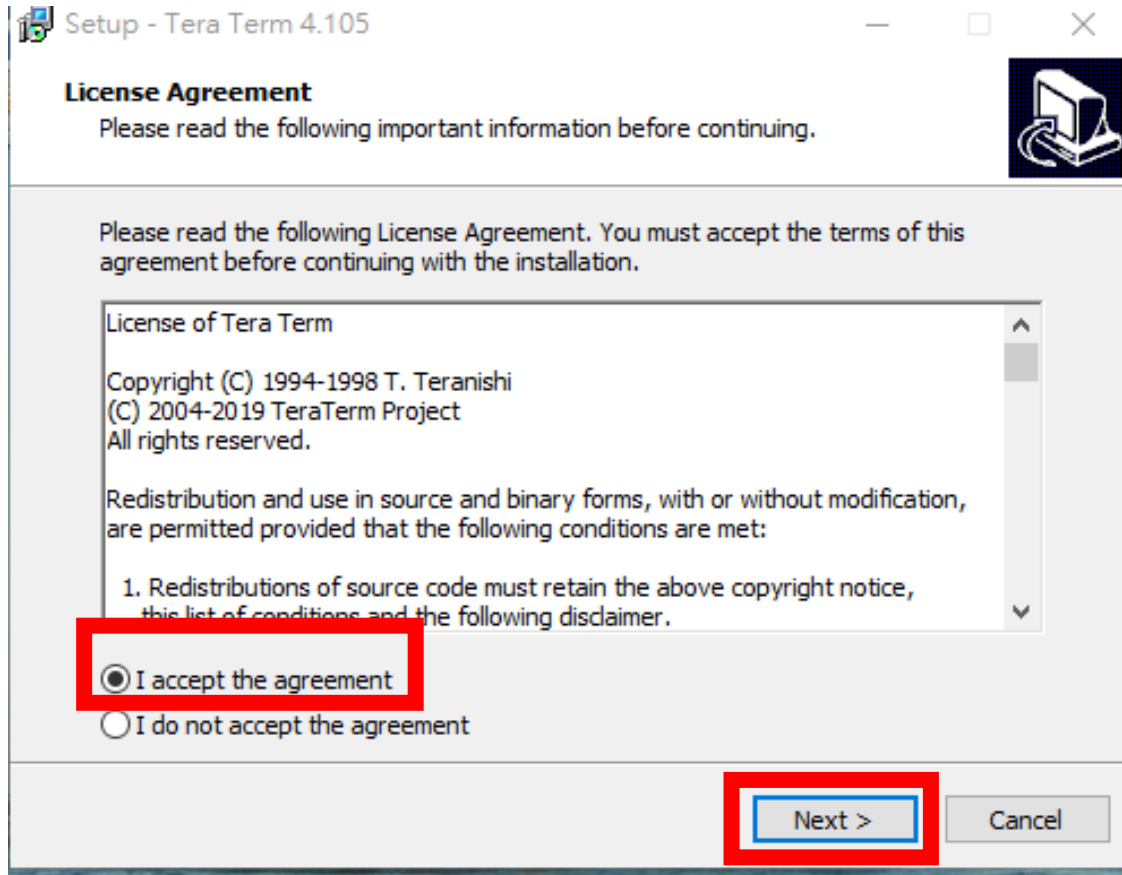
4.103 (2 files) Show 🔗

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[Accept](#) [Privacy policy](#) [Term of Use](#)

TeraTerm Installation

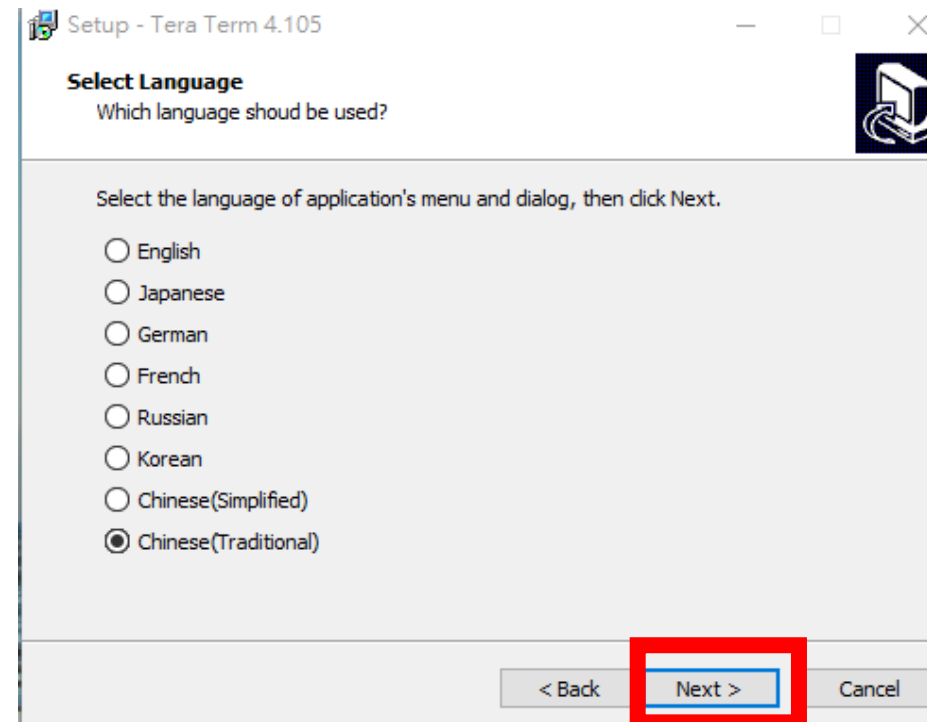
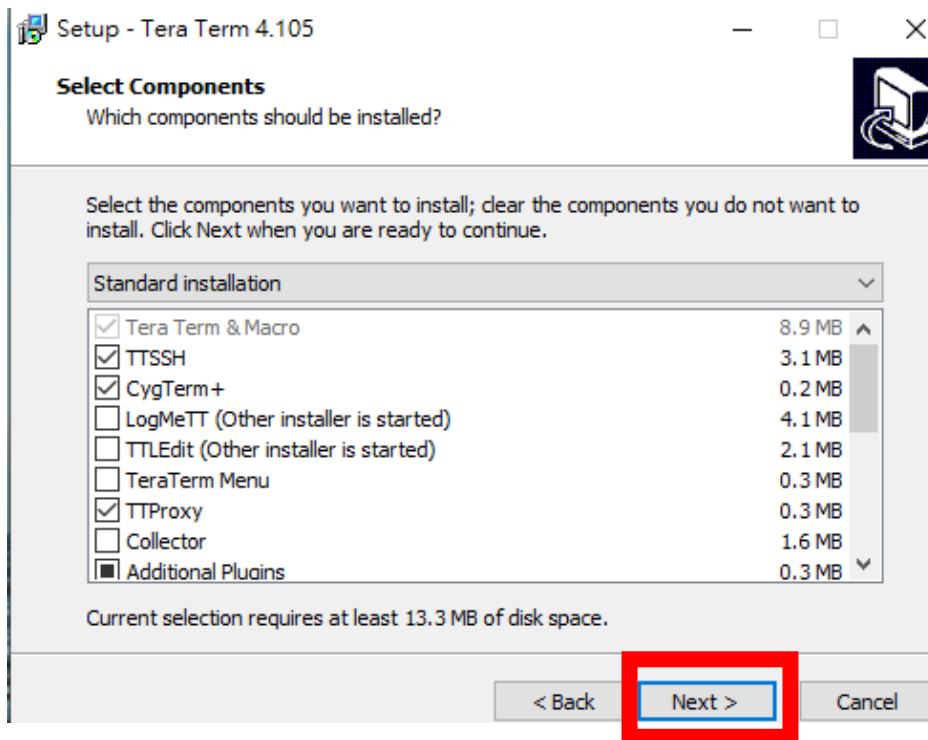
- Accept the agreement after reading it and select next



Teraterm Installation

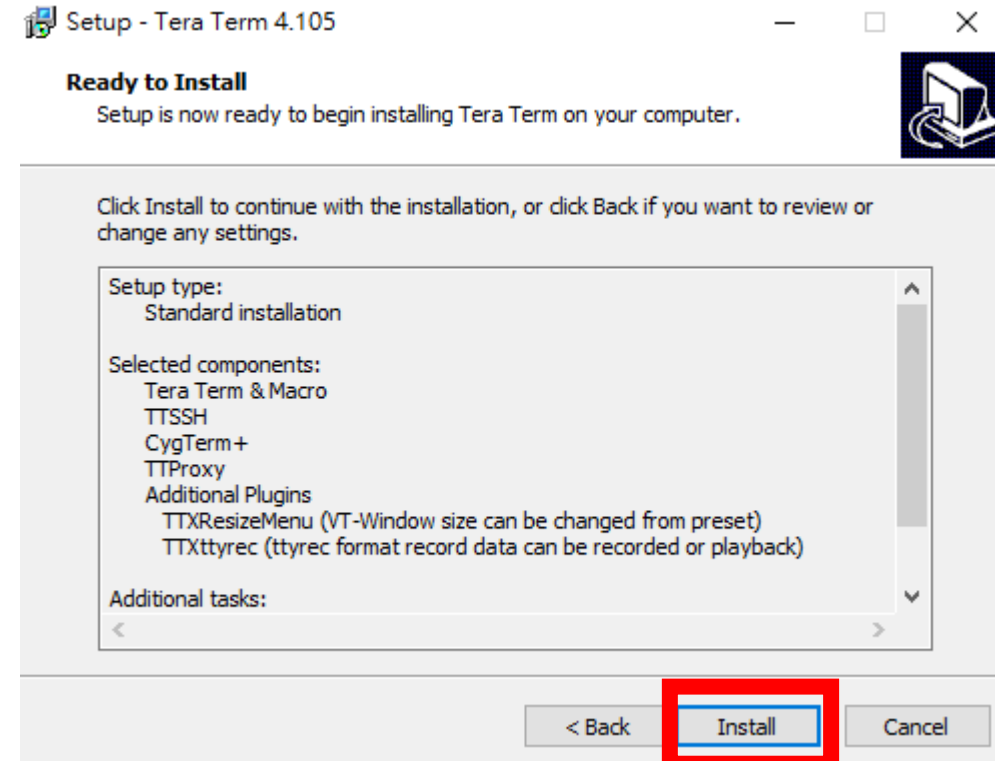
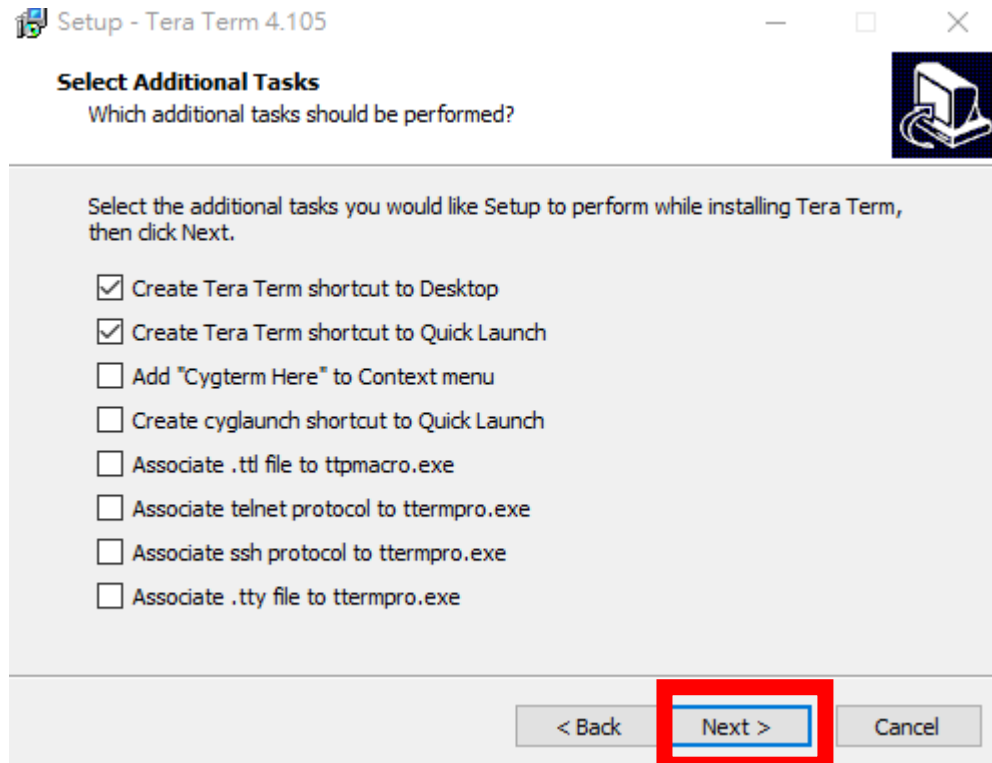
- Keep selecting Next

English or Chinese(Traditional) is recommended in this workshop



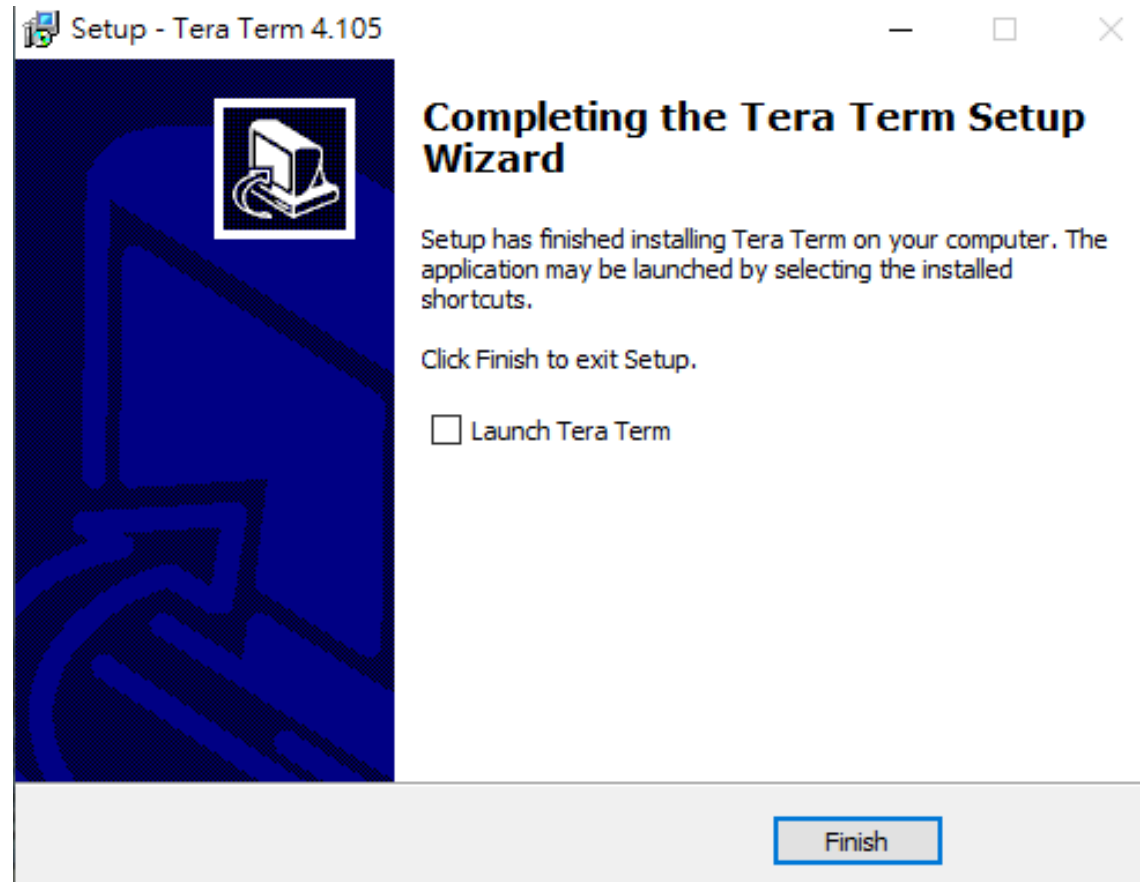
Teraterm Installation

- Keep selecting Next and install



Teraterm Installation

- Done





Install ARC GNU ToolChain



Installation of ARC GNU ToolChain

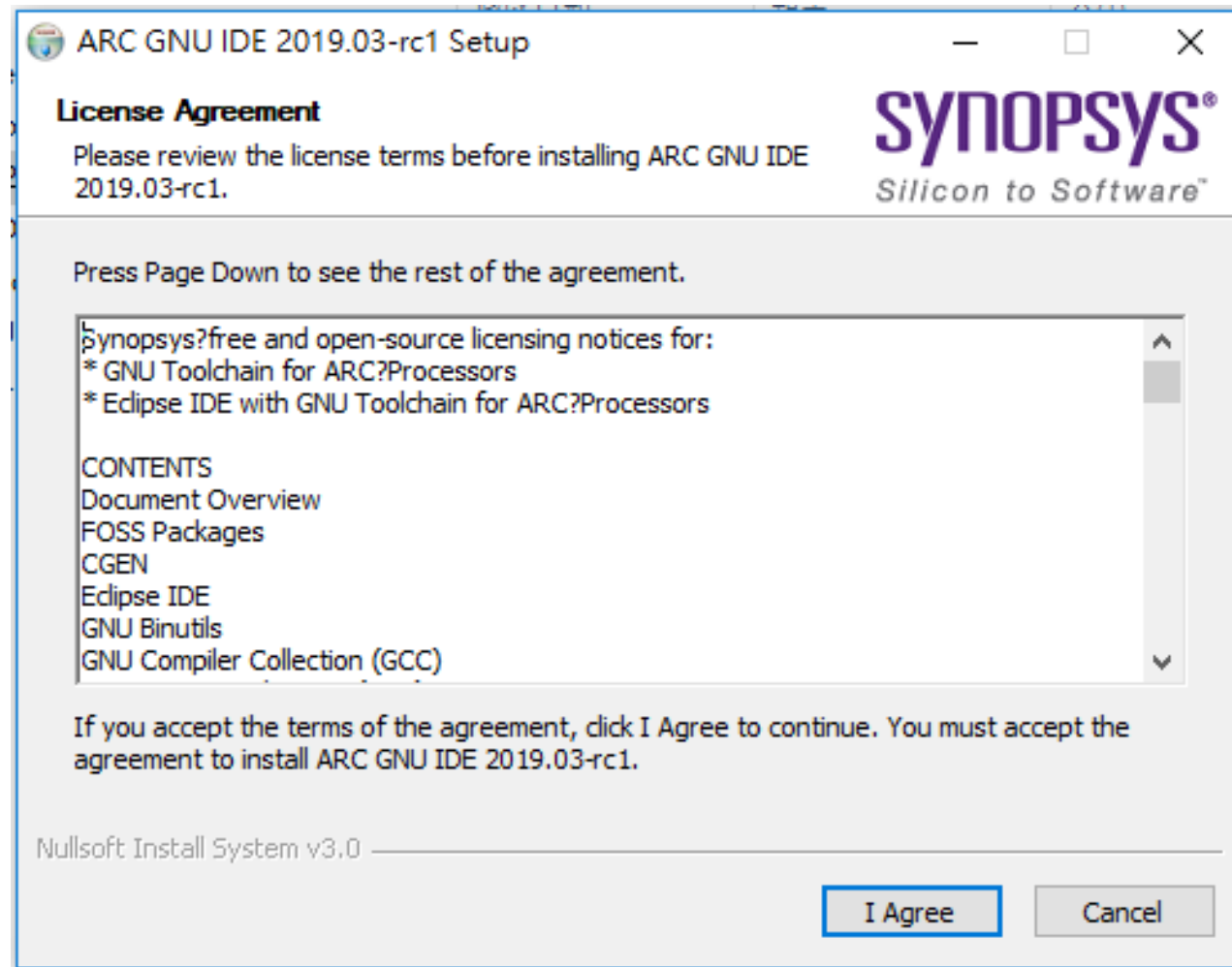
- Step 1 – Go to the download page :

<https://github.com/foss-for-synopsys-dwc-arc-processors/toolchain/releases/>

	Linux x86_64	Windows x86_64	Linux ARC HS	macOS x86_64
Baremetal	Little endian \ Big endian			Little endian \ Big endian
Linux/uClibc ARC700	Little endian \ Big endian			
Linux/uClibc ARC HS	Little endian \ Big endian		Little endian	
Linux/glibc ARC HS	Little endian \ Big endian			
IDE	Download	Download		Download

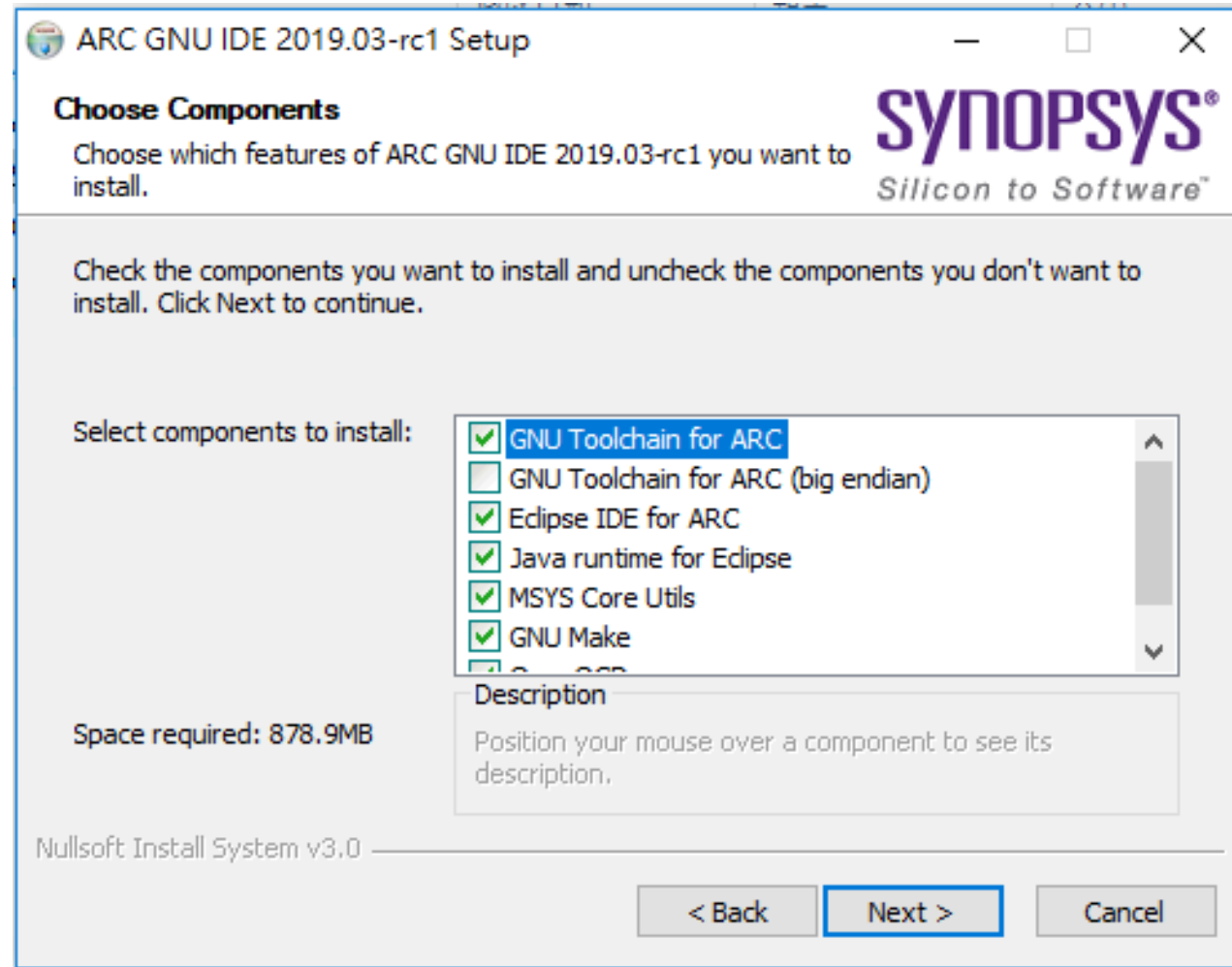
Installation of ARC GNU ToolChain

- Step 2 – Double click the installation file and press I Agree



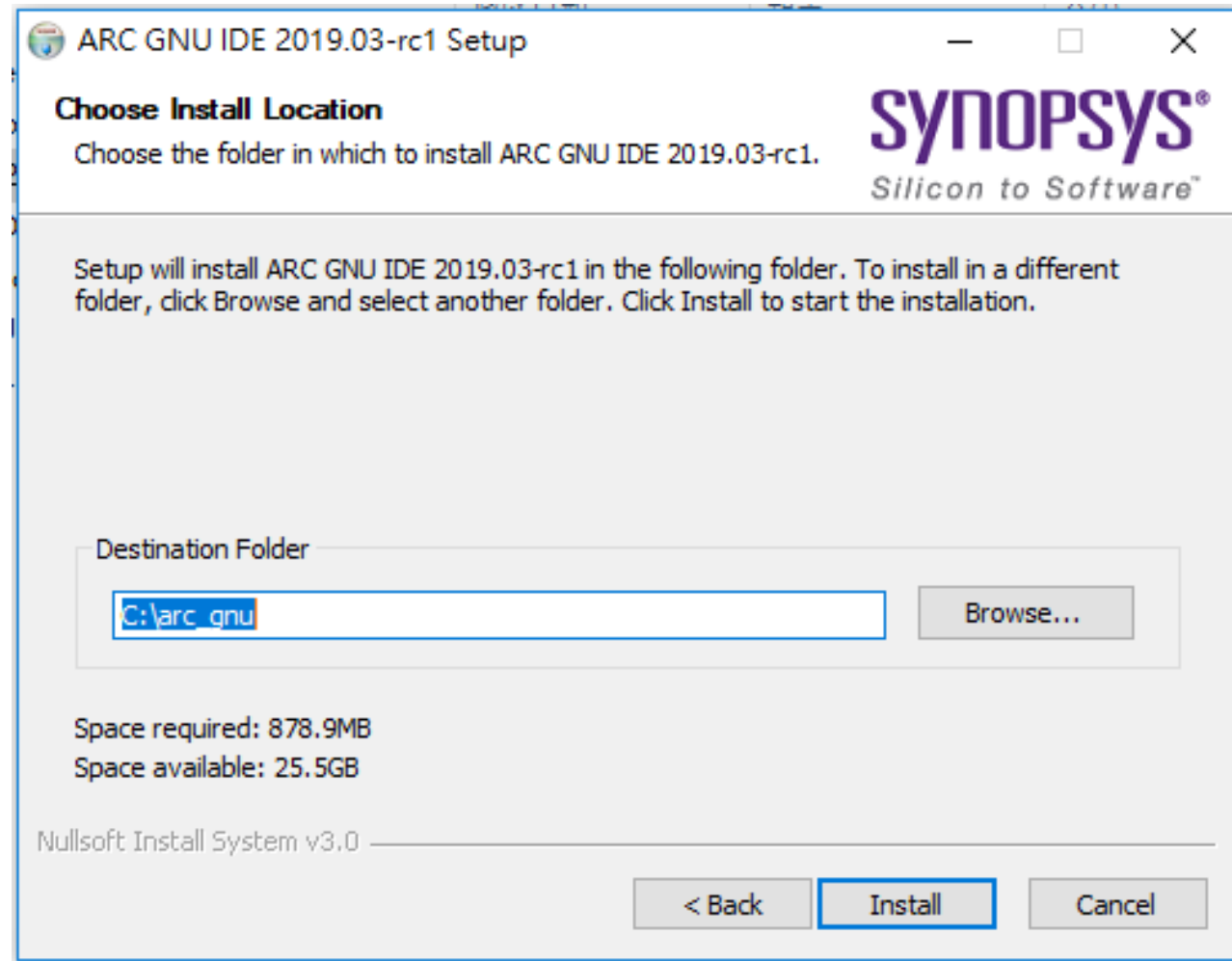
Installation of ARC GNU ToolChain

- Step 3 – Press Next



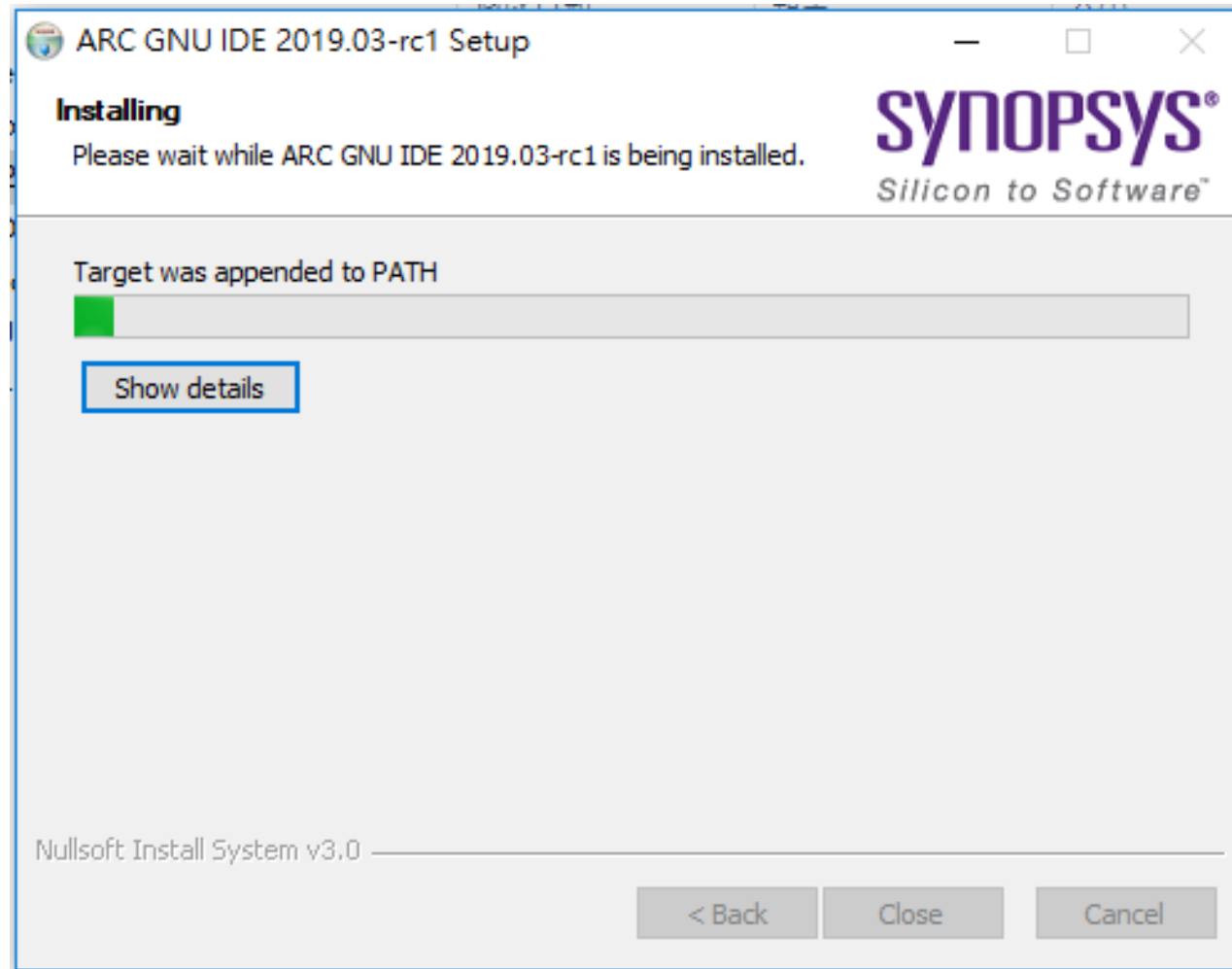
Installation of ARC GNU ToolChain

- Step 4 – Press Install



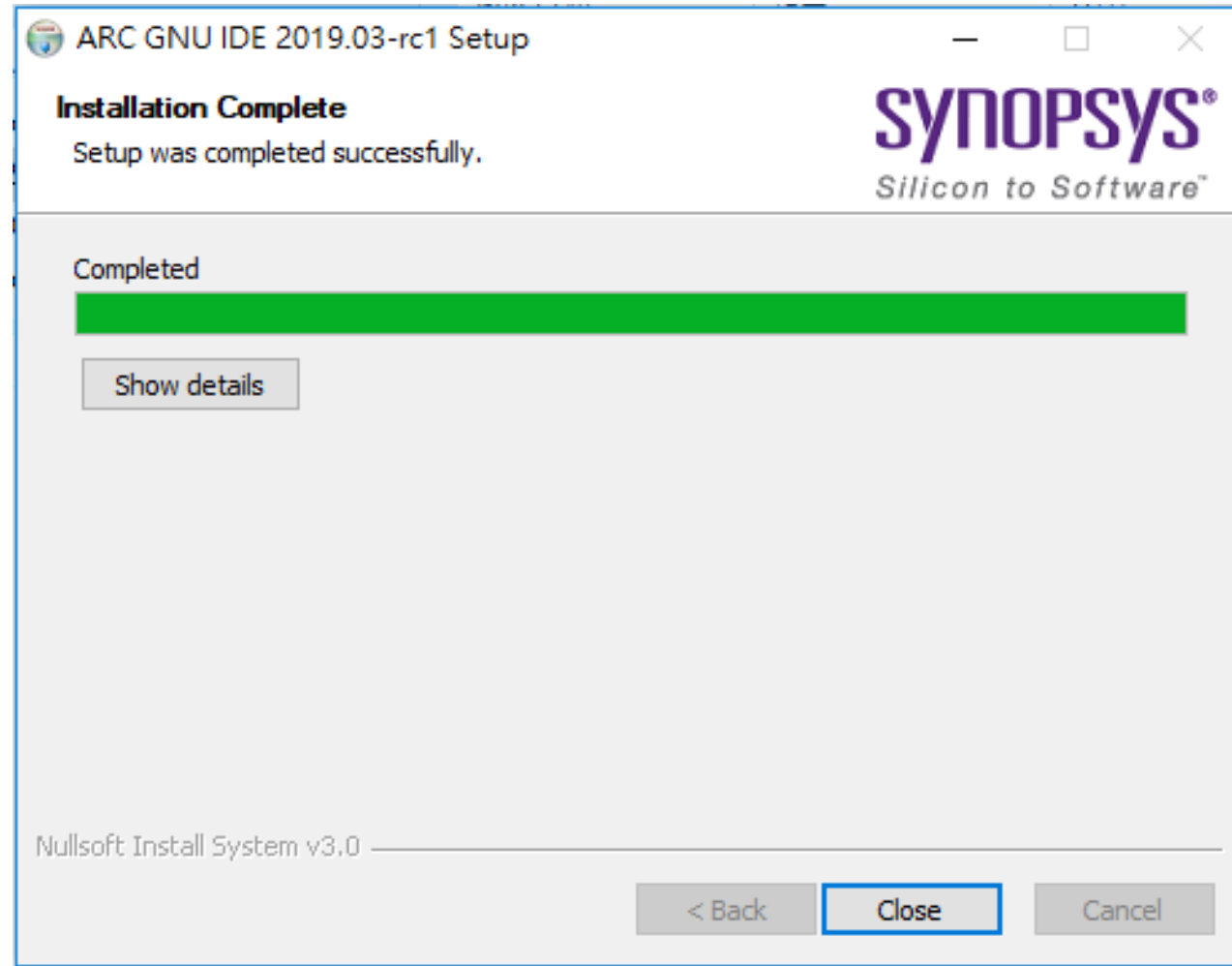
Installation of ARC GNU ToolChain

- Step 5 – Start to install...



Installation of ARC GNU ToolChain

- Step 6 - Press close and complete the installation





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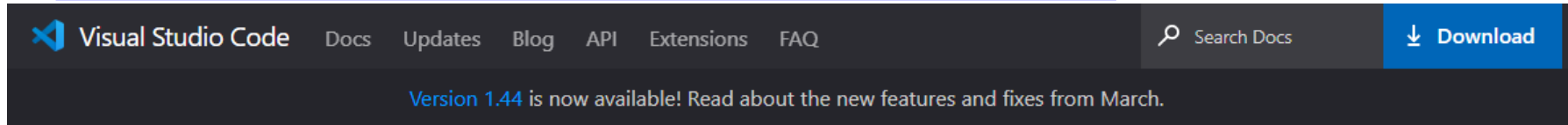
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Install VScode



Installation of VScode




- Step 1 – Go to download page of VScode :
<https://code.visualstudio.com/download>



Download Visual Studio Code

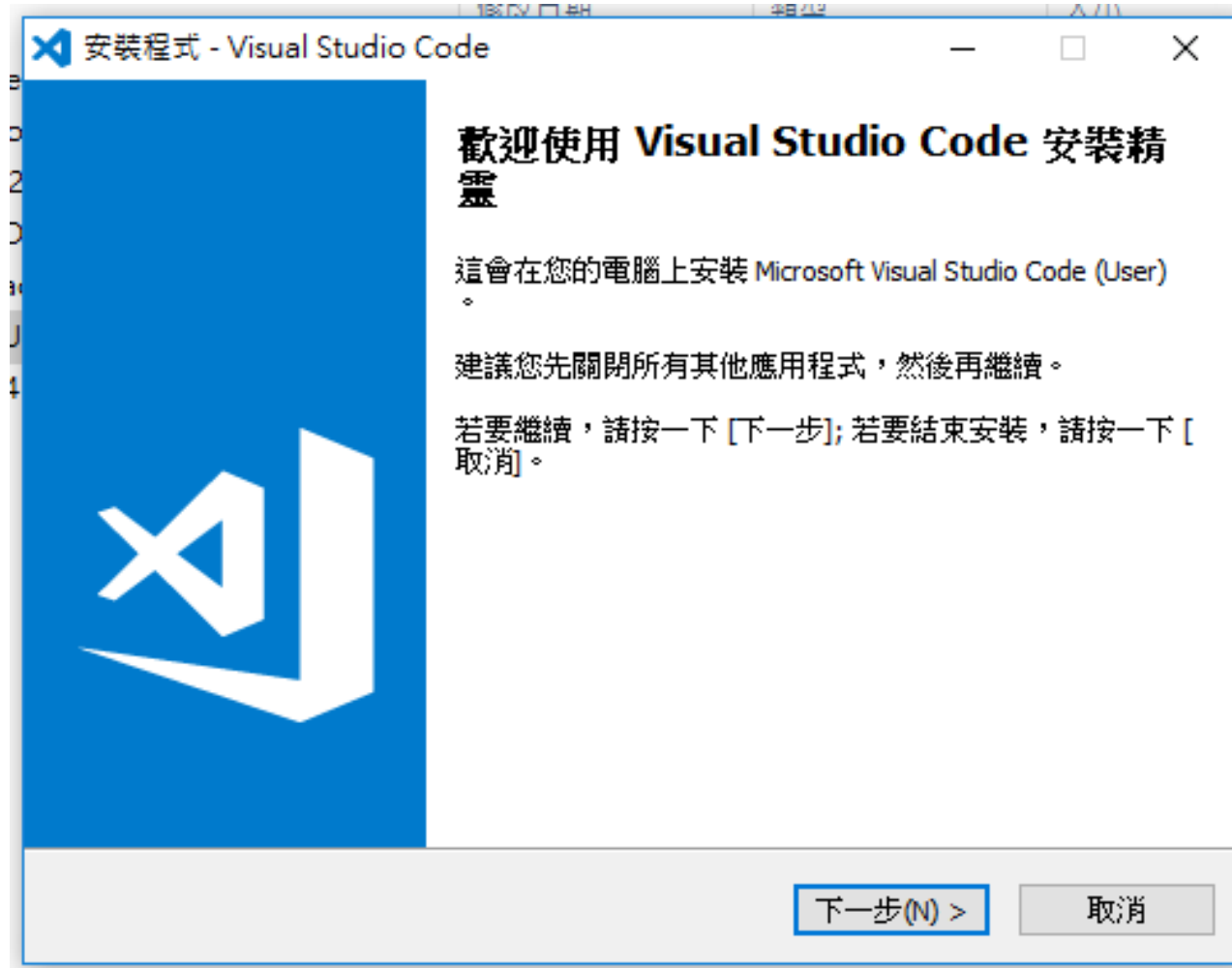
Free and built on open source. Integrated Git, debugging and extensions.

The main content area of the download page, featuring three large icons representing different operating systems: Windows, Linux (Tux penguin), and Mac. Below each icon are buttons for downloading the appropriate version. The Windows section offers a 'Windows 7, 8, 10' download. The Linux section provides options for '.deb' (Debian, Ubuntu) and '.rpm' (Red Hat, Fedora, SUSE). The Mac section offers a 'Mac' download for 'macOS 10.10+'. Below these buttons, there are links for 'User Installer', 'System Installer', and '.zip' for Windows; and '.deb', '.rpm', '.tar.gz', and 'Snap Store' for Linux. The Mac section also lists 'macOS 10.10+'.

		
↓ Windows Windows 7, 8, 10	↓ .deb Debian, Ubuntu	↓ .rpm Red Hat, Fedora, SUSE
↓ Mac macOS 10.10+		
User Installer 64 bit 32 bit System Installer 64 bit 32 bit .zip 64 bit 32 bit	.deb 64 bit .rpm 64 bit .tar.gz 64 bit Snap Store	

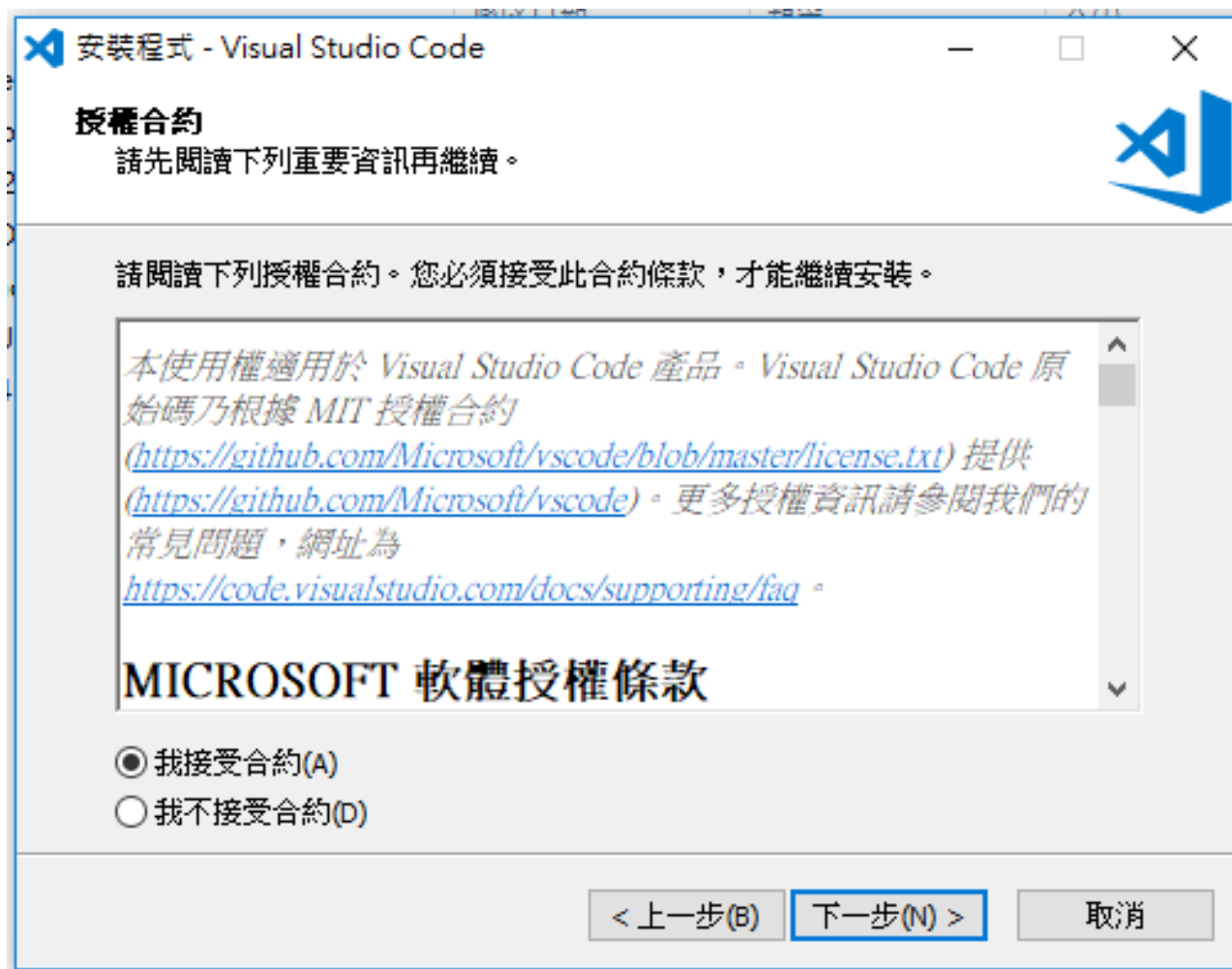
Installation of VScode

- Step 2 – Double click the installation file and press next



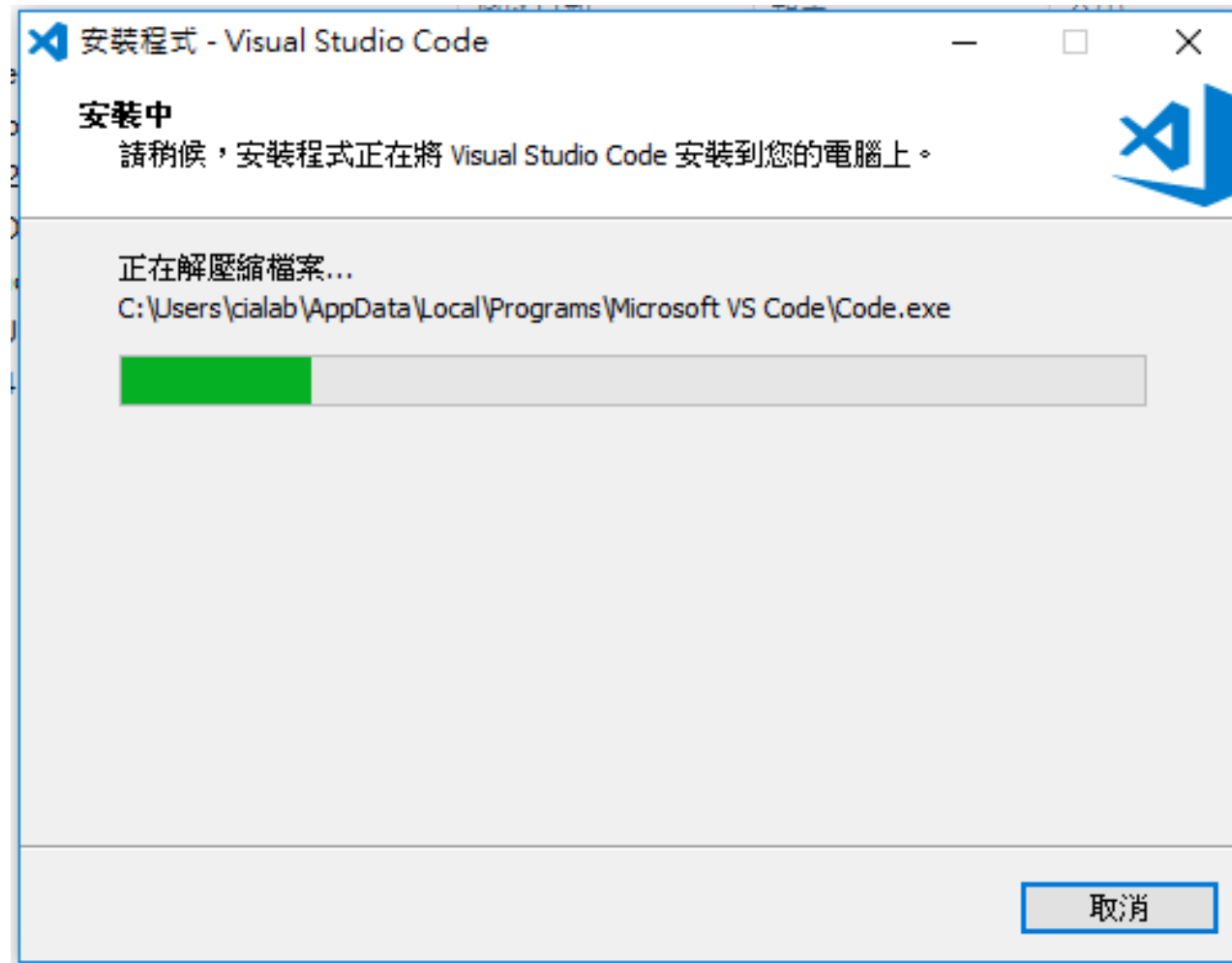
Installation of VScode

- Step 3 – Accept the contract and press next...



Installation of VScode

- Step 4 – Start to install...



Installation of VScode

- Step 5 – Press finish



Installation of VScode

- Step 6 – Try to open the VScode

