



Tutorial 1 – Environment Installation







Install VirtualBox



 https://www.virtualbox.org/wiki/Downloads?fbclid=IwAR12O6-1e_Dg00CFt4xuChqjJSuGKQwgVZDZa3MI-I2QojYsEq9ILe3bWLQ



About

Screenshots

Downloads

Documentation

End-user docs

Technical docs

Contribute

Community

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

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

VirtualBox 6.1.18 platform packages

⇒Windows hosts

- Prop A Hosts
- Linux distributions
- ➡Solaris hosts
- ➡Solaris 11 IPS hosts

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

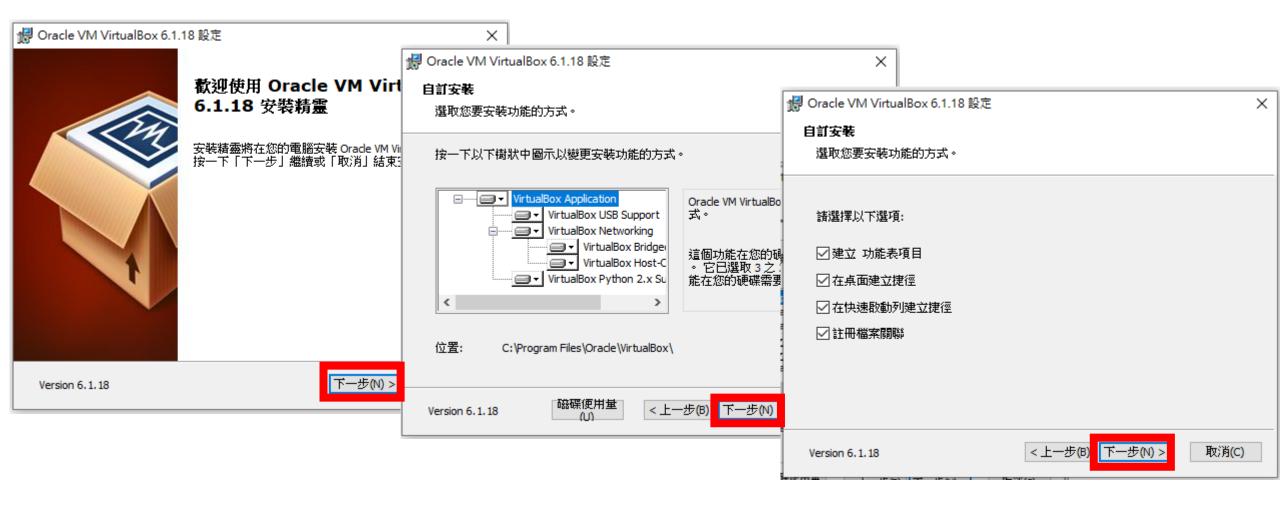
See the changelog for what has changed.

You might want to compare the checksums to verify the integrity of downloaded packages. The SHA256 checksums shou

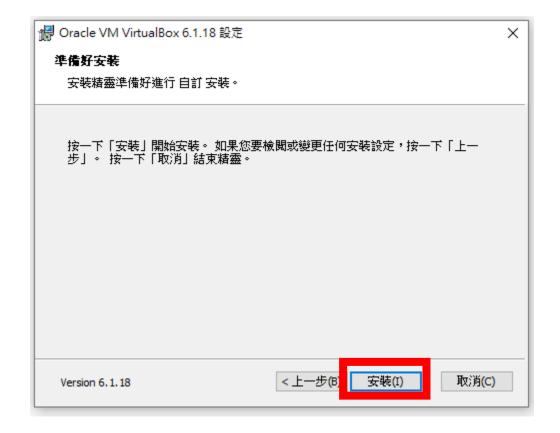
· SHA256 checksums, MD5 checksums

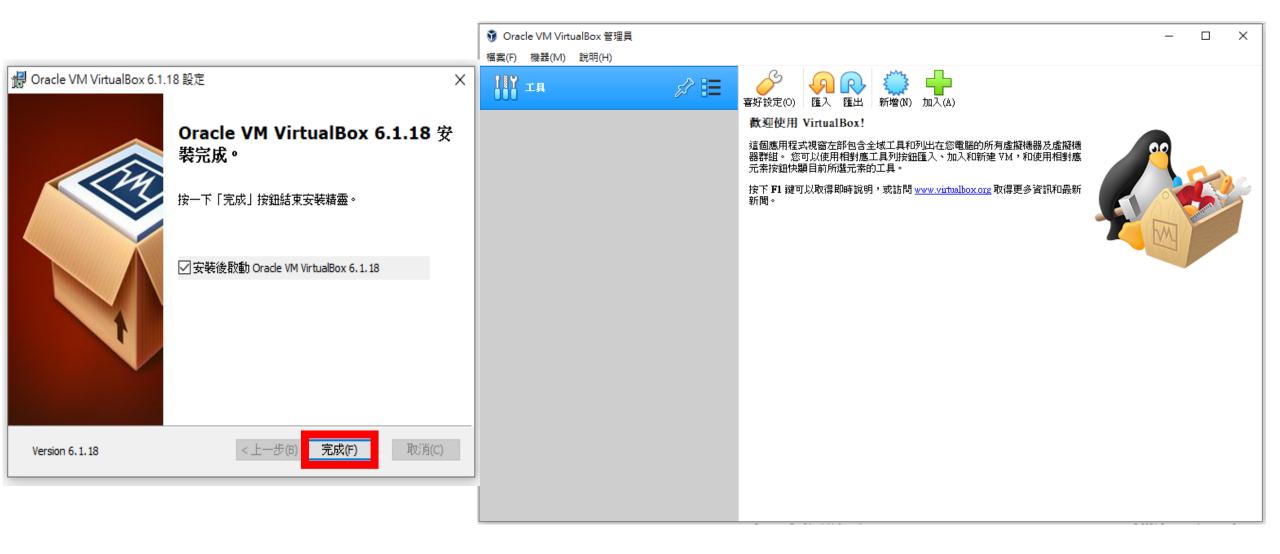
Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

VirtualBox 6.1.18 Oracle VM VirtualBox Extension Pack













Install Cygwin



Go to https://cygwin.com/install.html

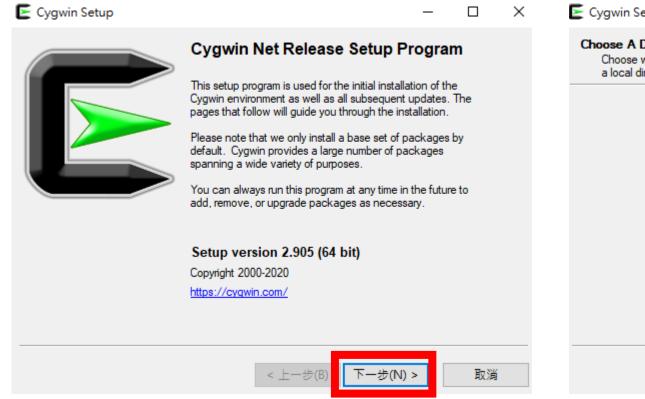
Cygwin

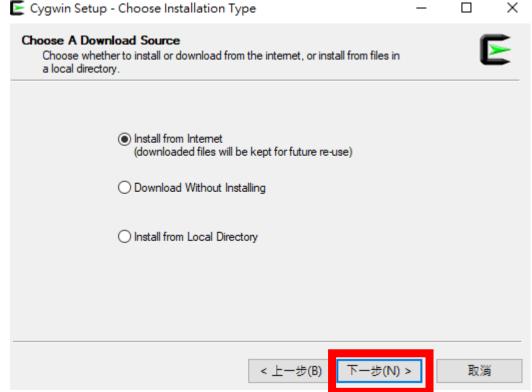
Get that Linux feeling - on Windows

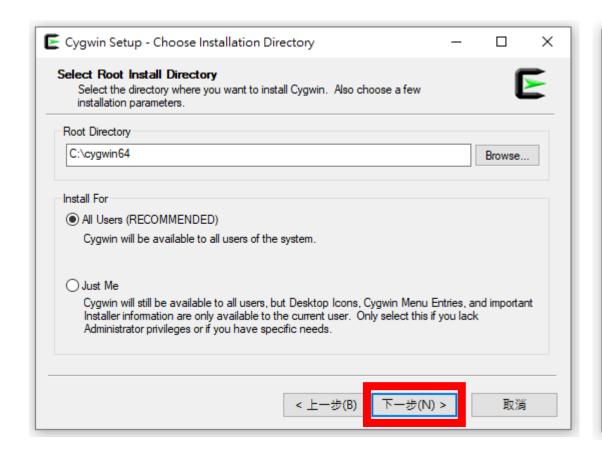
Installing and Updating Cygwin Packages

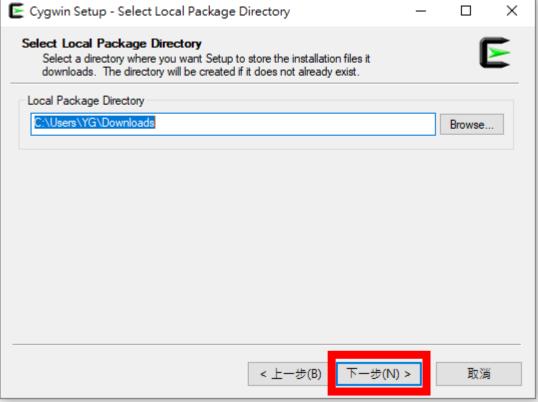
Installing and Updating Cygwin for 64-bit versions of Windows

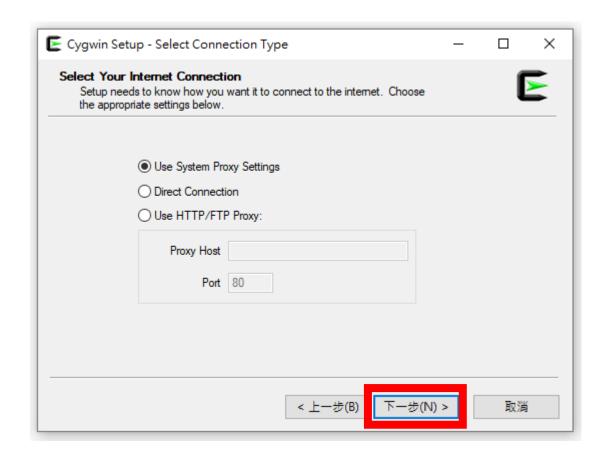
Run setup-x86_64.exe any time you want to update or install a Cygwin package for 64-bit windows. The signature for setup-x86_64.exe can be used to verify the validity of this binary.

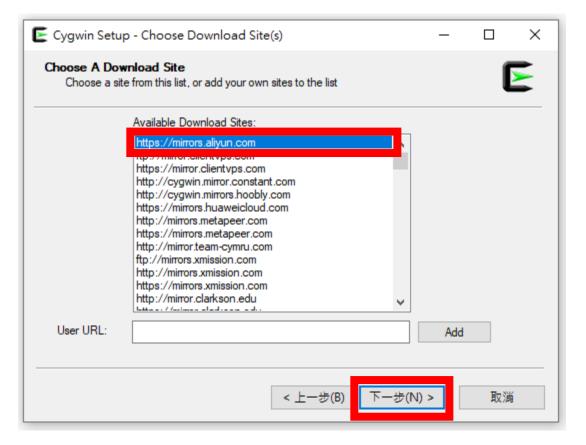




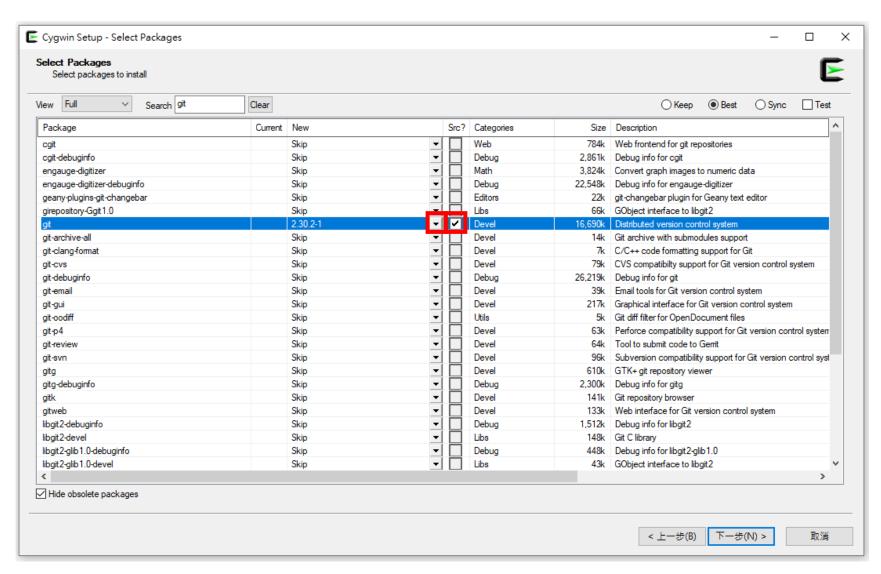




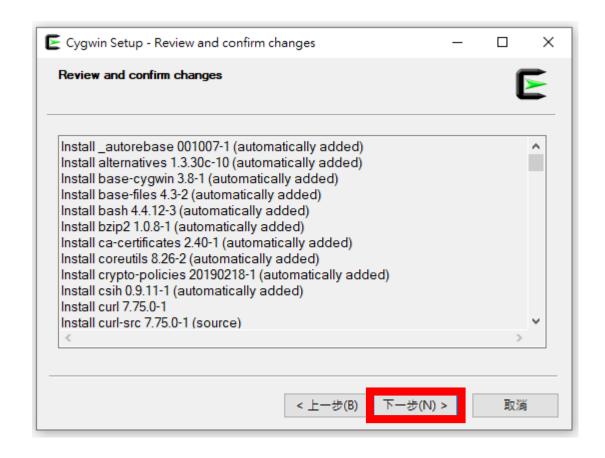


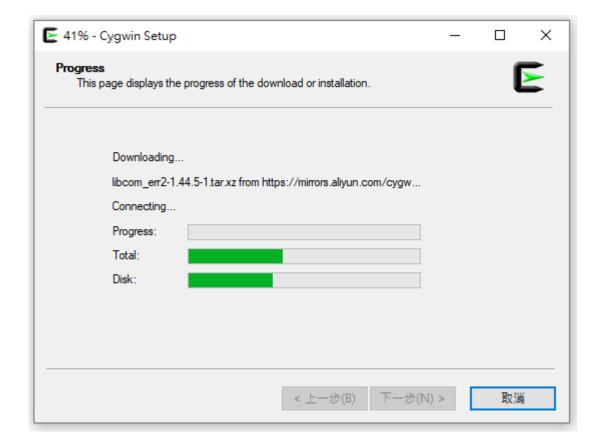


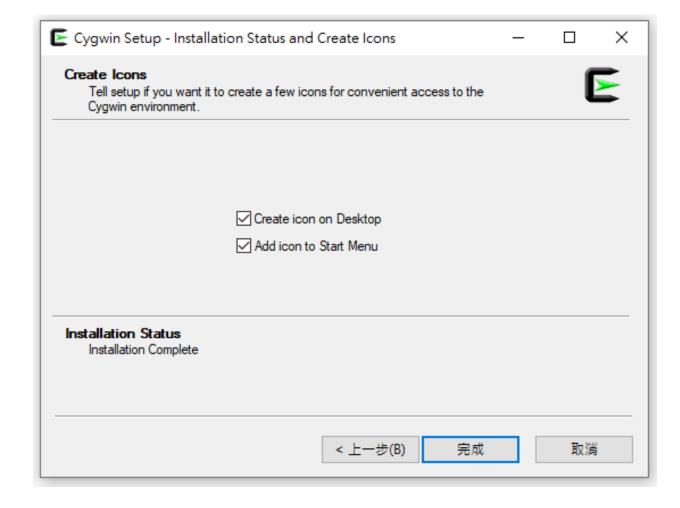
Search: git, xxd, make, unzip, curl E Cygwin Setup - Select Packages Select Packages Select packages to install git Best ◯ Sync ☐ Test Search ○ Keep Package Current New Src? Categories Size Description Web Skip 784k Web frontend for git repositories cgit-debuginfo Skip Debua 2,861k Debug info for cgit Skip Math engauge-digitizer 3,824k Convert graph images to numeric data engauge-digitizer-debuginfo Skip Debug 22,548k Debug info for engauge-digitizer Skip Editors 22k git-changebar plugin for Geany text editor geany-plugins-git-changebar Libs 66k GObject interface to libgit2 girepository-Ggit 1.0 Skip Skip Devel 7.034k Distributed version control system git-archive-all Skip Devel 14k Git archive with submodules support Skip Devel 7k C/C++ code formatting support for Git ait-clang-format git-cvs Skip Devel 79k CVS compatibility support for Git version control system Debug 26,219k Debug info for git ait-debuginfo Skip git-email Skip Devel 39k Email tools for Git version control system Skip Devel 217k Graphical interface for Git version control system git-gui Utils ait-oodiff Skip 5k Git diff filter for Open Document files git-p4 Skip Devel 63k Perforce compatibility support for Git version control system ait-review Skip Devel 64k Tool to submit code to Gerrit git-svn Skip Devel 96k Subversion compatibility support for Git version control syst Skip Devel 610k GTK+ git repository viewer gitg-debuginfo Skip Debua 2,300k Debug info for gitg Skip Devel 141k Git repository browser aitweb Skip Devel 133k Web interface for Git version control system libgit2-debuginfo Skip Debug 1,512k Debug info for libgit2 Skip Git C library libait2-devel Skip libgit2-glib1.0-debuginfo Debua 448k Debug info for libgit 2-glib 1.0 libgit2-glib1.0-devel Skip Libs 43k GObject interface to libgit2 Hide obsolete packages < 上一步(B) 下一步(N) > 取消



- 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











Install Teraterm



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

Tera Term Home Page



TeraTerm Project

TeraTerm Project would have been developed terminal emulator "Tera Term" and SSH module "TTSSH". This software is open source softwar in <u>Project Page</u> 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 <u>SVN repository</u>. And <u>snapshot</u> is here. Here is the <u>Old release</u>, however we recommend using the latest release as possible.

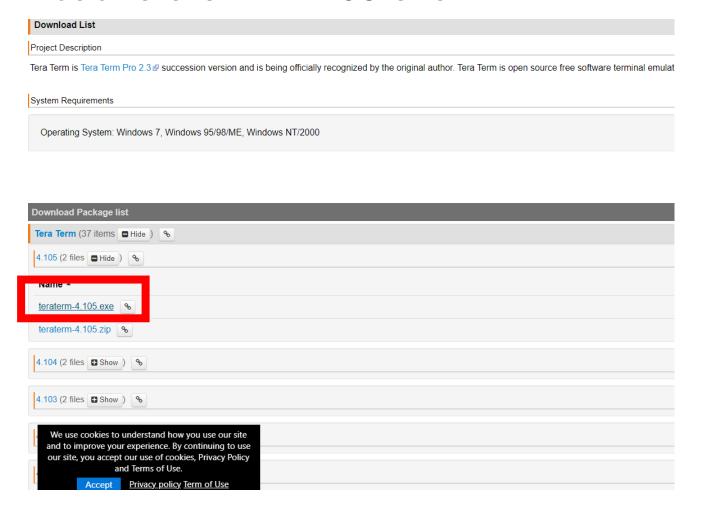
Manual

Following manuals are available.

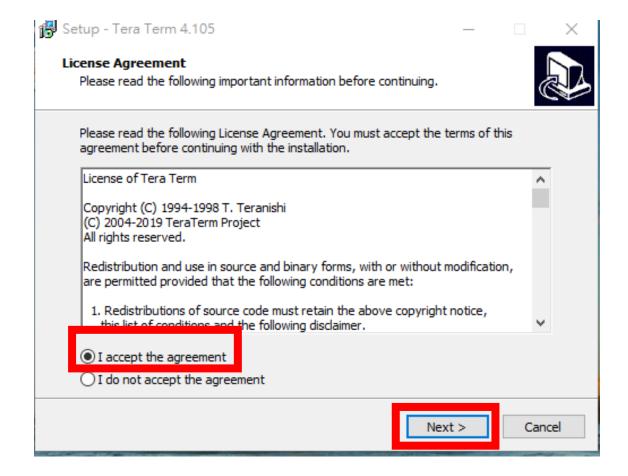
These manuals are the latest contents. New feature not including the release version will be written.

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

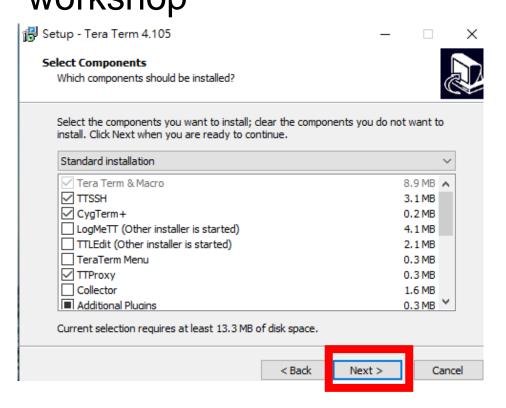
Download teraterm-4 .105.exe

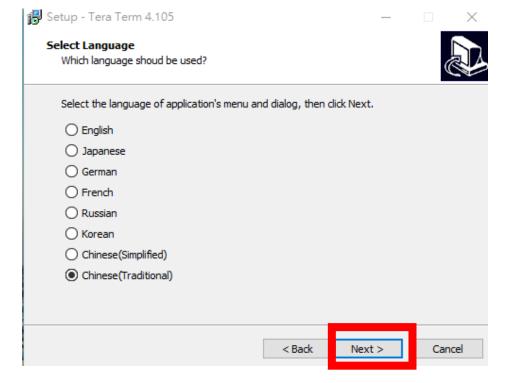


Accept the agreement after reading it and select next

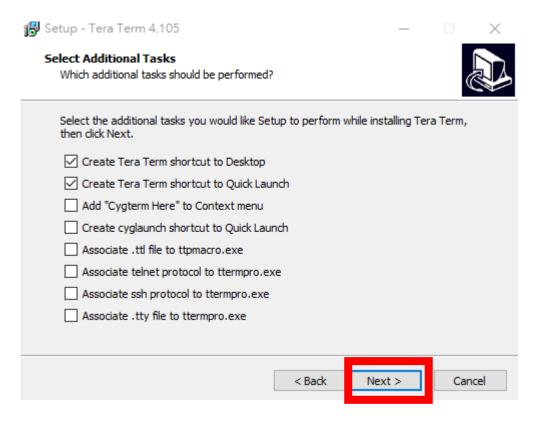


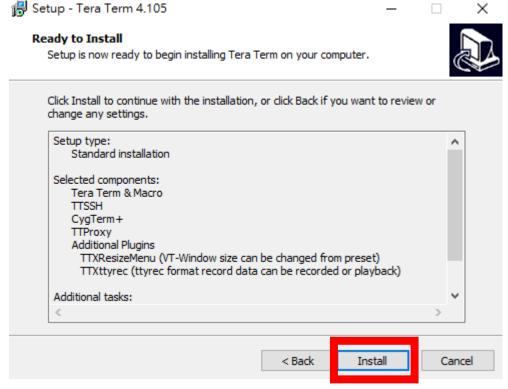
Keep selecting Next
English or Chinese(Traditional) is recommended in this workshop



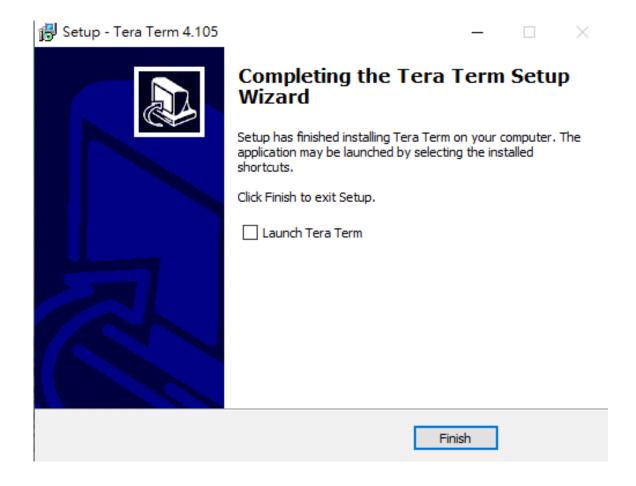


Keep selecting Next and install





Done





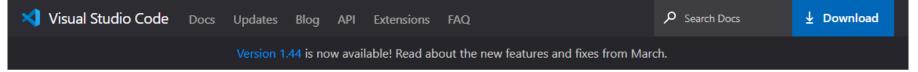


Install VScode



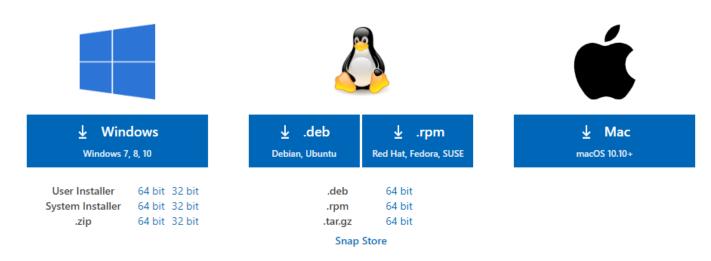
Step 1 – Go to download page of VScode :

https://code.visualstudio.com/download



Download Visual Studio Code

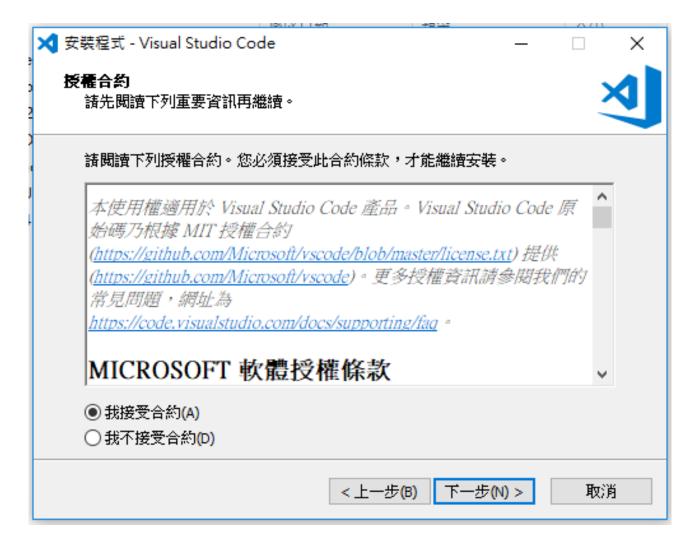
Free and built on open source. Integrated Git, debugging and extensions.



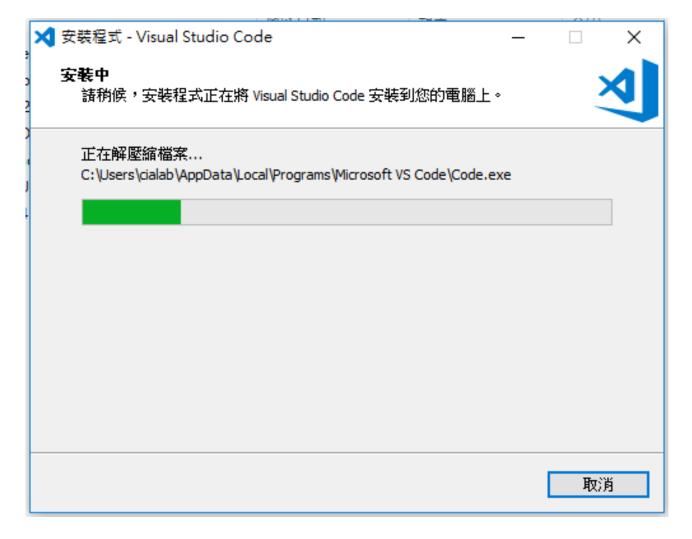
Step 2 – Double click the installation file and press next



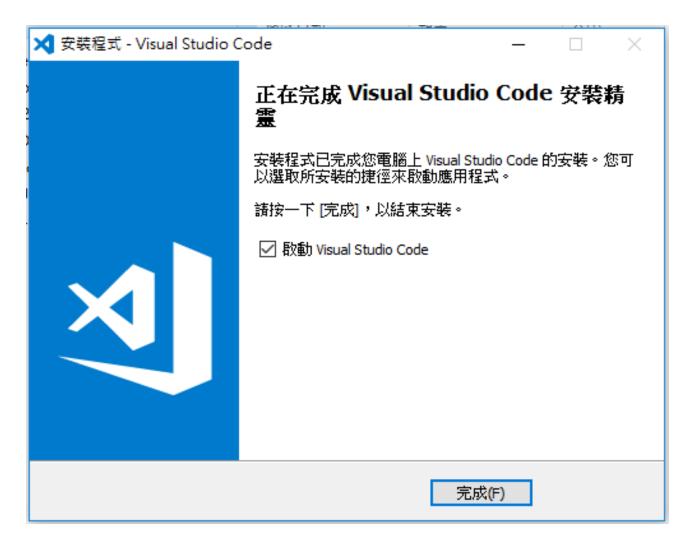
• Step 3 – Accept the contract and press next...



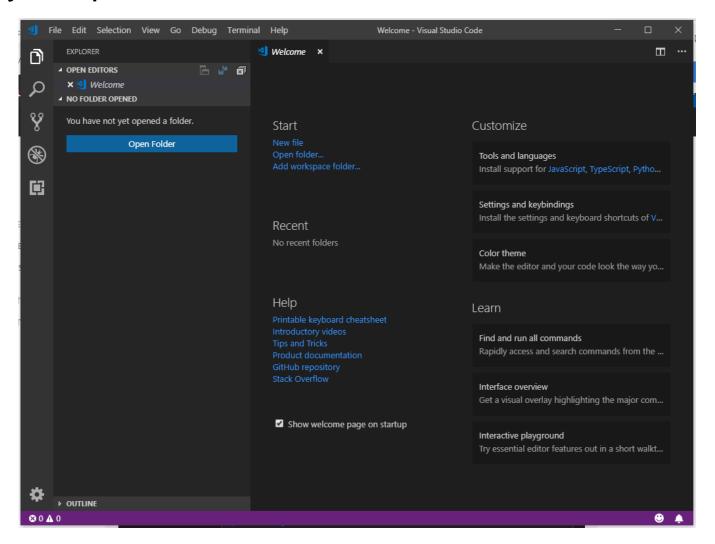
Step 4 – Start to install...



Step 5 – Press finish



Step 6 – Try to open the VScode







Install ARC GNU ToolChain

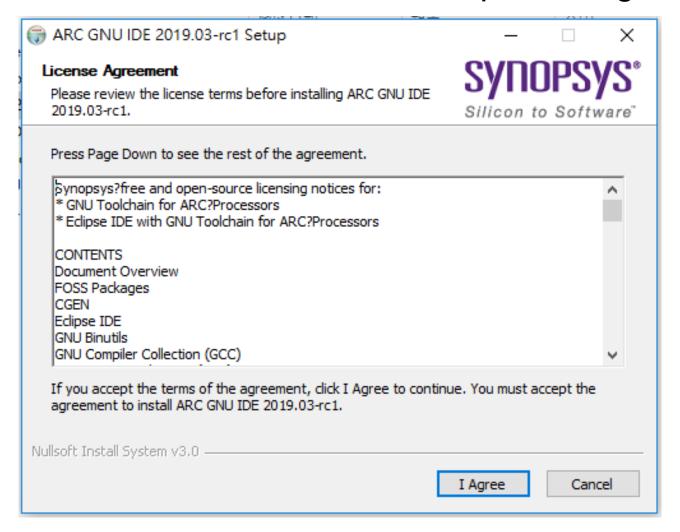


Step 1 – Go to the download page :

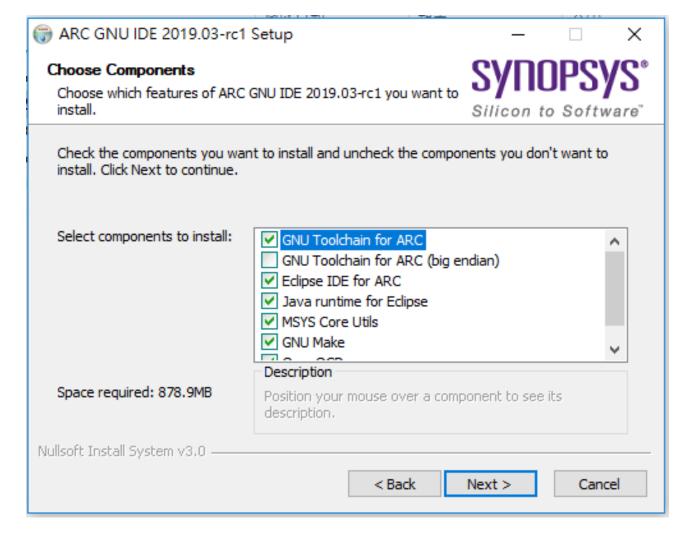
https://github.com/foss-for-synopsys-dwc-arc-processors/toolchain/releases/

	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

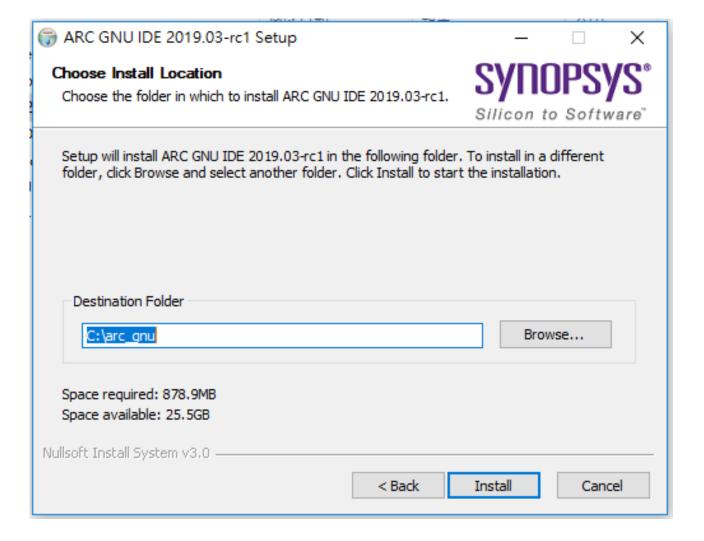
Step 2 – Double click the installation file and press I Agree



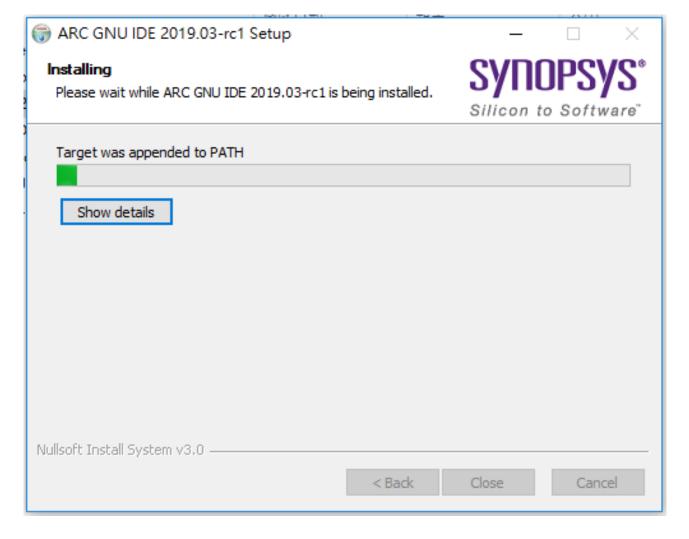
Step 3 – Press Next



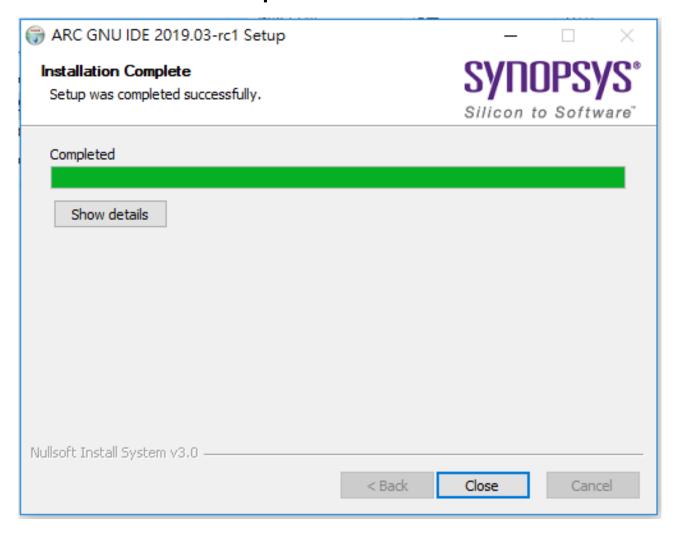
Step 4 – Press Install



Step 5 – Start to install...



• Step 6 - Press close and complete the installation







Appendix-1: Metaware Install



•台灣學界人員可向TSRI申請MetaWare使用權限,申請流程可至TSRI網站,

設計服務 > 軟體申請須知 進行查詢。

https://www.tsri.org.tw/main.jsp

- 請指導教授先完成申請TSRI會員, 接著即可申請要使用之軟體, 並且登錄欲要用該軟體之實驗室電腦IP。
- 指導教授為TSRI會員後,學生可點選 登入會員,接著選擇註冊帳號,填寫完 相關資訊,並等待相關程序處理完畢。



- 進入TSRI 官網 https://www.tsri.org.tw/main.jsp
- ●點選設計服務->軟體資訊/下載



•點選軟體申請,跳至會員登入頁面,並完成登入動作

軟體簡介

軟體簡介

名稱: MetaWare Development Toolkit

簡介:

軟體功能:

為因應國内學術界對ARC嵌入式軟體開發工具的需求,TSRI引進新思(Synopsys)公司的DesignWare MetaWare Toolkit軟體開發工具,開

计从网件用名弗由注法口



功能權限錯誤

您需要先登入才能使用此功能。

其他問題可以先參考申請須知。

聯絡我們

新竹辦公室: 30078 新竹市科學園區展業一路26號

台南-成大奇美樓: 70101台南市大學路1號成功大學自強校區奇美樓7樓

最佳瀏覽解析度為1366*768以上

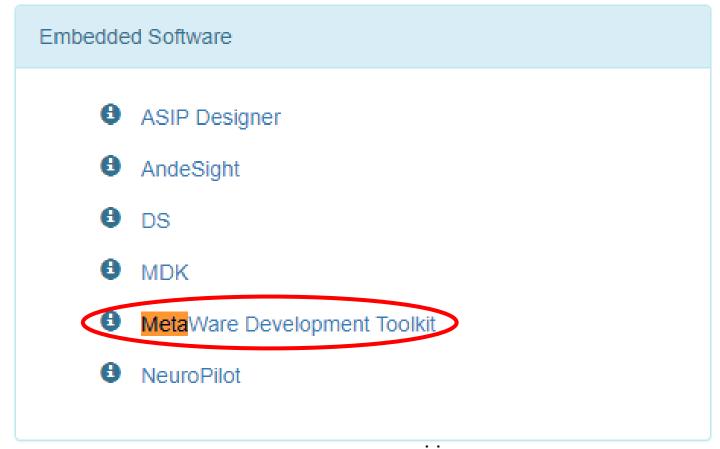
軟體資訊



IP登録

聯絡窗口

- Ctrl+f 搜尋Meta
- 點選MetaWare Development Toolkit



• 點選軟體取得



軟體簡介

名稱: MetaWare Development Toolkit

簡介:

軟體功能:

為因應國內學術界對ARC嵌入式軟體開發工具的需求,TSRI引進新思(Synopsys)公司的DesignWare MetaWare Toolkit軟體開發工具,開放給學術界免費申請使用。

DesignWare MetaWare Toolkit可以針對ARC HS及ARC EM 平台進行相關的軟體開發、分析及除錯。

軟體內容:

- 1. 單一工具鏈支援所有ARC處理器(ARC 600, ARC 700, ARC EM and ARC HS)
- 2. 支援進階C++語法,包含Standard Template Library for ARC
- 3. OS Aware Debugger 可針對 MQX RTOS for ARC
- 4. 支援多核心除錯
- 5. Eclipse-based IDE

系統需求:

Windows 7/10, 64-bit

RHEL 6.6/6.7/6.8/7.1/7.3, 64-bit

1 GB of RAM

•下載mwev_...以及 synopsys_caffe_...

軟體簡介 軟體取得 實作範例			
MetaWare Development Toolkit 軟體取得			
2020.09			
檔案名稱	檔案說明	檔案大小	下載連結
mwev_R-2020_09_win_install.exe	MetaWare Development Toolkit for Windows 64位元版安裝檔	3,382,128,416 bytes	下載
synopsys_caffe_v2020_09.exe	Synopsys caffe 安裝檔 for Windows, install with mwev_R-2020_09_win_install.exe	2,317,838,362 bytes	下載
MWDT_2020.09_linux_1of3.tgz	MetaWare Development Toolkit for Linux Disk 1/3	866,315,860 bytes	下載
MWDT_2020.09_linux_2of3.tgz	MetaWare Development Toolkit for Linux Disk 2/3	1,419,168,522 bytes	下載
MWDT_2020.09_linux_3of3.tgz	MetaWare Development Toolkit for Linux Disk 3/3	2,100,589,978 bytes	下載
mwev_R-2020_09_build_info.txt	MetaWare Development Toolkit 軟體版本說明檔	359 bytes	下載

- 進入控制台->系統及安全性->系統->進階系統設定->
 - ->環境變數->系統變數新增

調整電腦設定



系統及安全性

檢閱您的電腦狀態 使用檔案歷程記錄來儲存檔案的備份副本 備份與還原 (Windows 7)



網路和網際網路

檢視網路狀態及工作



硬體和音效

檢視裝置和印表機 新增裝署



程式集

解除安裝程式





使用者帳戶 ● 變更帳戶類型



外觀及個人化



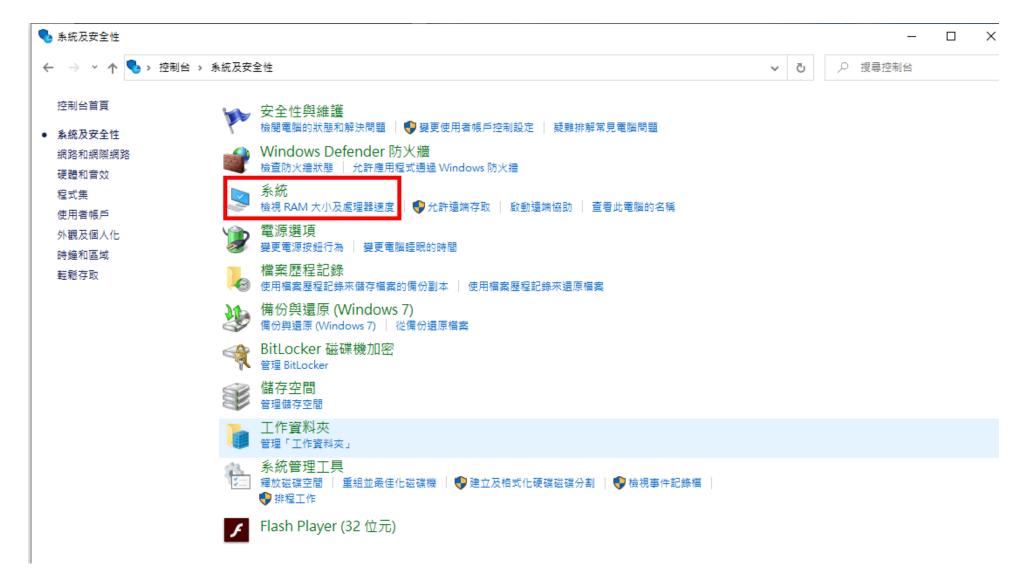
時鐘和區域

變更日期、時間或數字格式

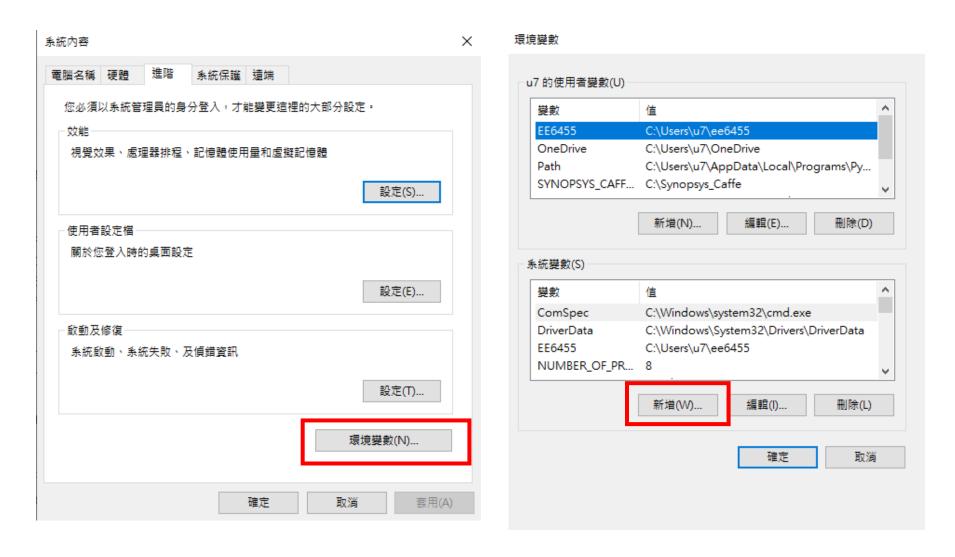


輕鬆存取

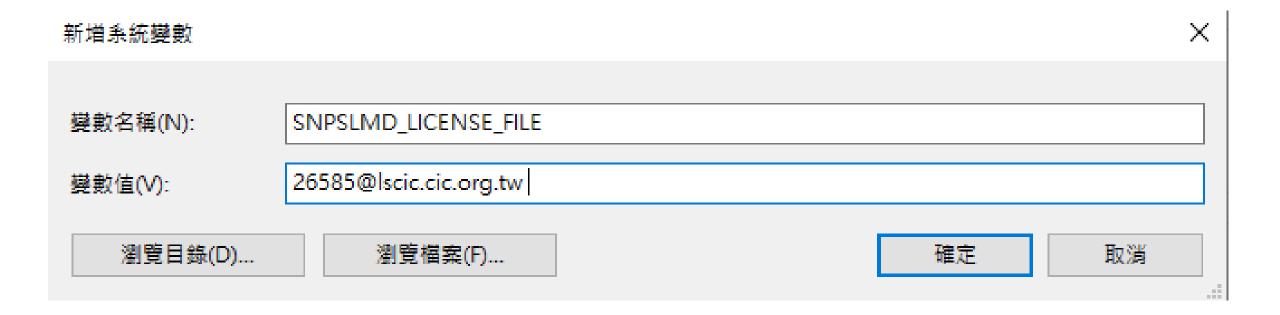
譲 Windows 建議設定 最佳化視覺顯示 檢視:



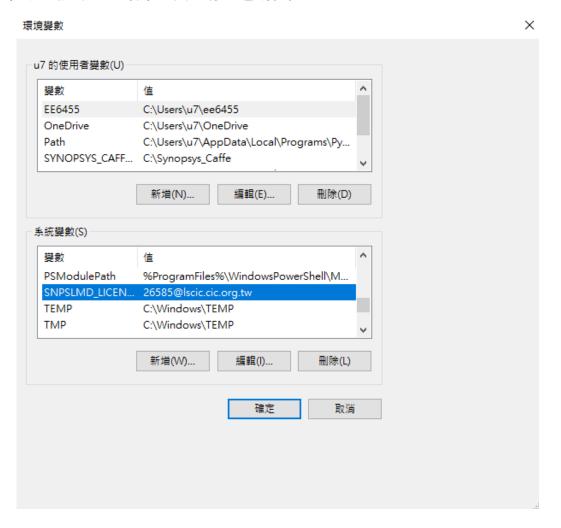




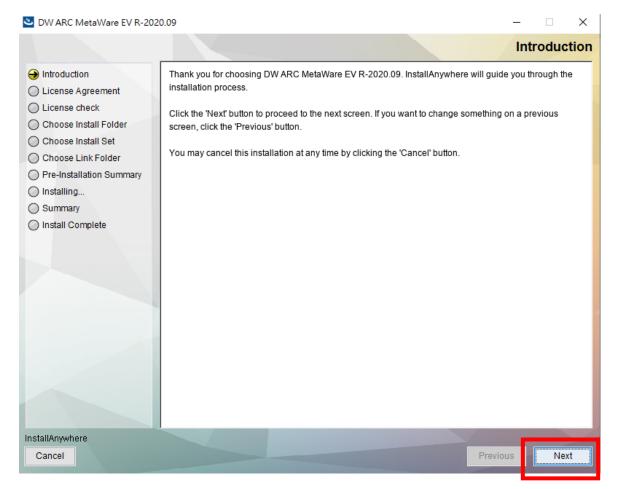
- 變數名稱:SNPSLMD_LICENSE_FILE
- 變數值:26585@lscic.cic.org.tw
- 輸入完成後按下確定



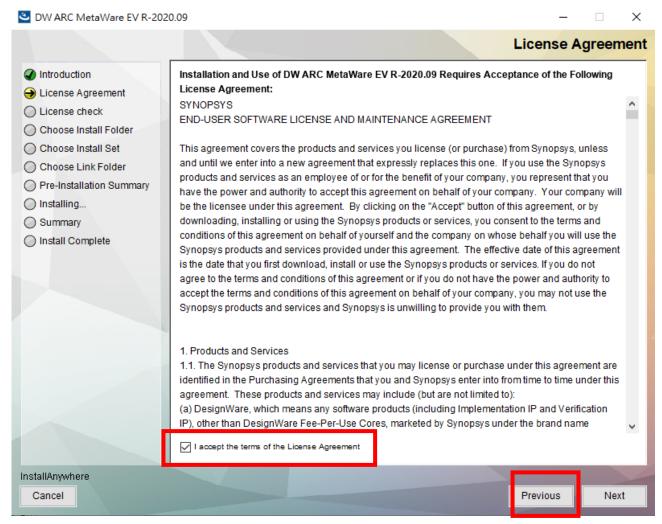
•確認新增成功,成功後重新啟動電腦



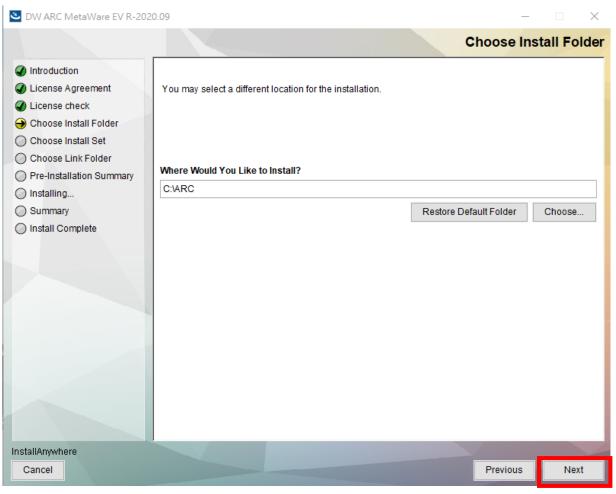
- •執行mwev_R_2020_09_win_install
- •接下來步驟都點選Next



• 勾選 I accept ...



• 如果License check失敗,請回到第五頁確認新增環境變數成功



• 點選Done完成安裝

