

STM32 Ecosystem-based workshop

Pre-Workshop installations

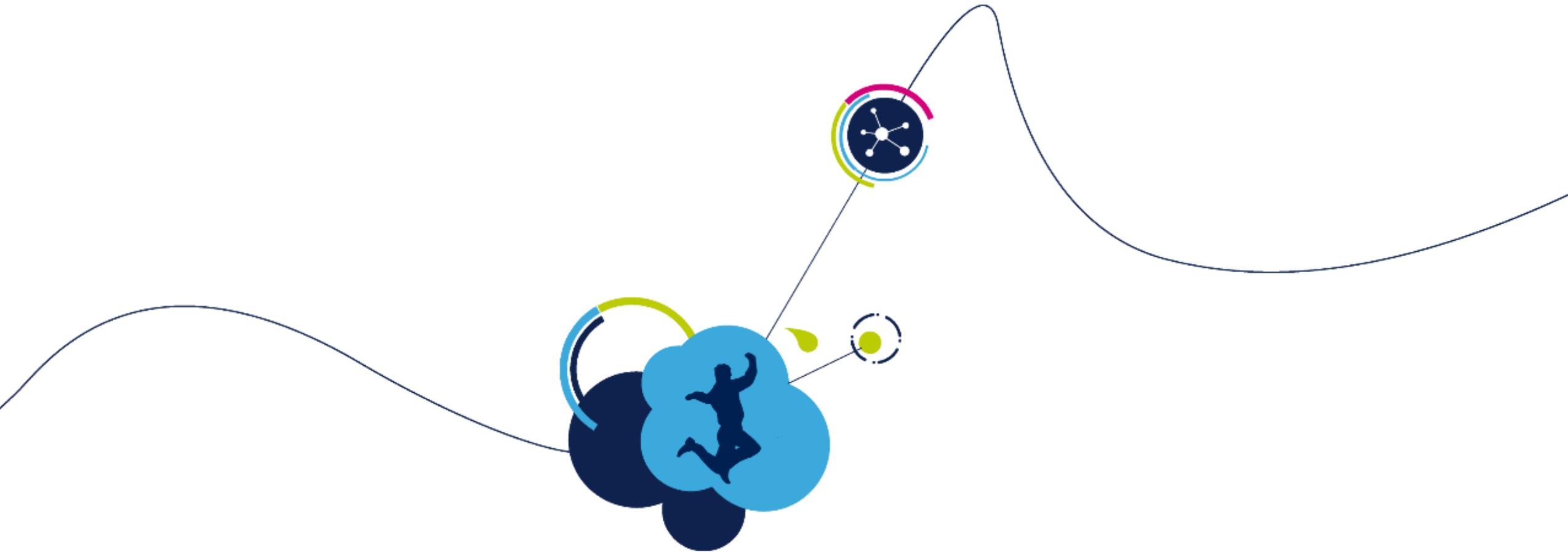


System Requirements

2

- Laptop
 - Administrative privileges needed for driver/software install and later during the workshop for compiling codes.
 - Windows Operating System
 - Win7/Win8/Win10
- Please bring your own USB A to Mini-B cable





Installation of Atollic TrueSTUDIO for STM32

Atollic TrueSTUDIO Install

- Download Atollic TrueSTUDIO for STM32

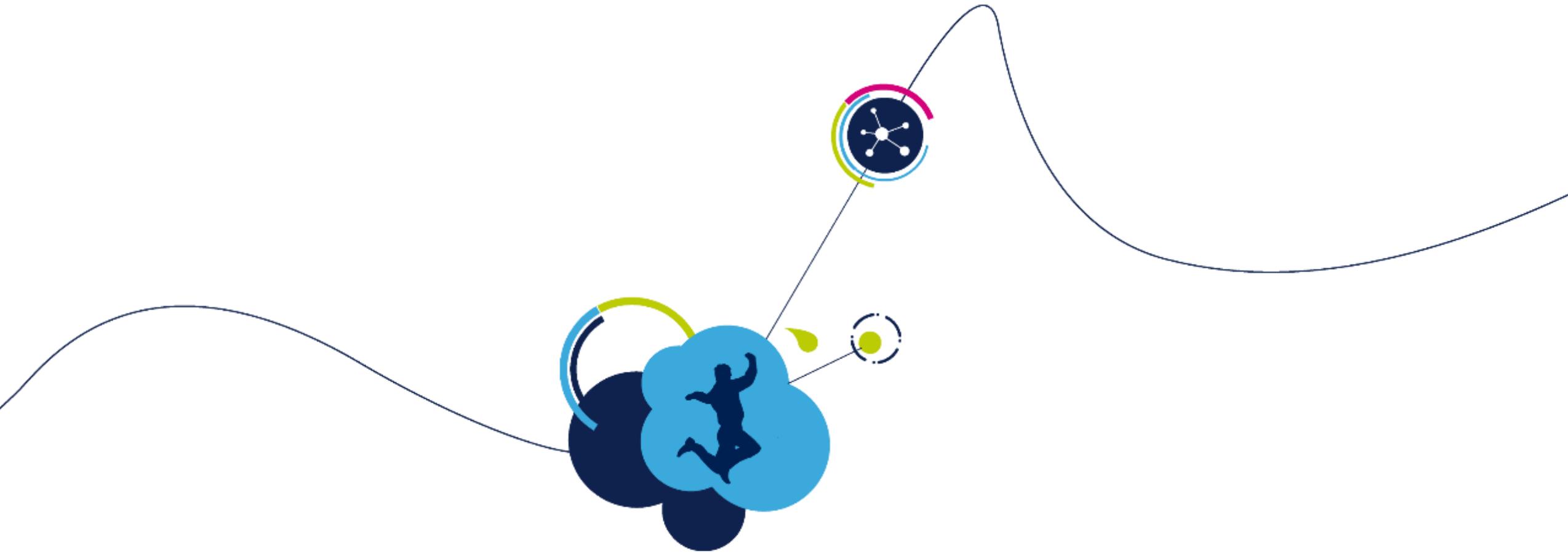
http://download.atollic.com/TrueSTUDIO/installers/Atollic_TrueSTUDIO_for_STM32_windows_x86_v9.0.1_20180420-1214.exe

- You may refer to the installation guide for first time user

http://gotland.atollic.com/resources/manuals/9.0.0/install_guide.pdf

- For existing user, download the upgrade guide

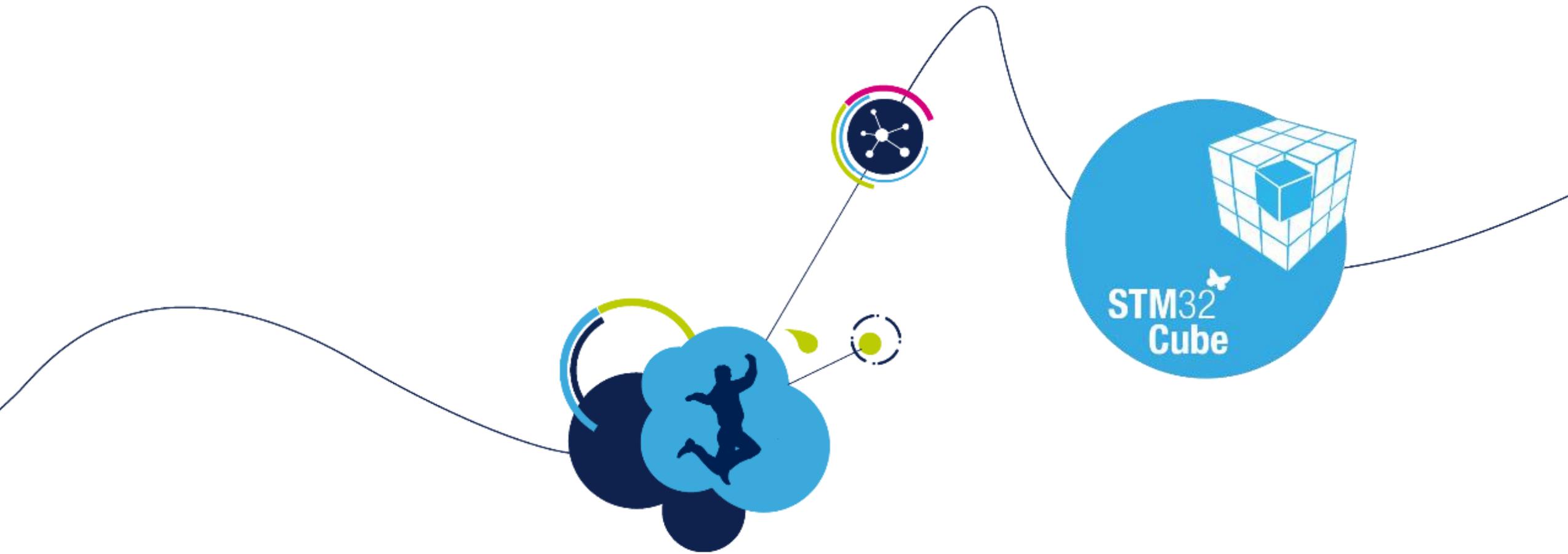
http://gotland.atollic.com/resources/manuals/9.0.0/AtollicTrueSTUDIO_UpgradeGuide.pdf



STM32CubeProgrammer installation

STM32CubeProgrammer Install

- Download www.st.com/content/st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stm32cubeprog.html
- Install this package
 - The ST-Link USB drivers will be installed and will allow you to program any Nucleo board.
 - STM32CubeProgrammer (STM32CubeProg) is an all-in-one multi-OS software tool for programming STM32 microcontrollers.



STM32CubeMX installation

STM32CubeMX Download

- Download STM32CubeMX from www.st.com/stm32cube

GET SOFTWARE

Part Number ▲	Marketing Status ◆	Supplier ◆	Unit Price (US\$) ◆	Software Version ◆	Order from ST ◆
STM32CubeMX	Active	ST	-	4.26.0	Download

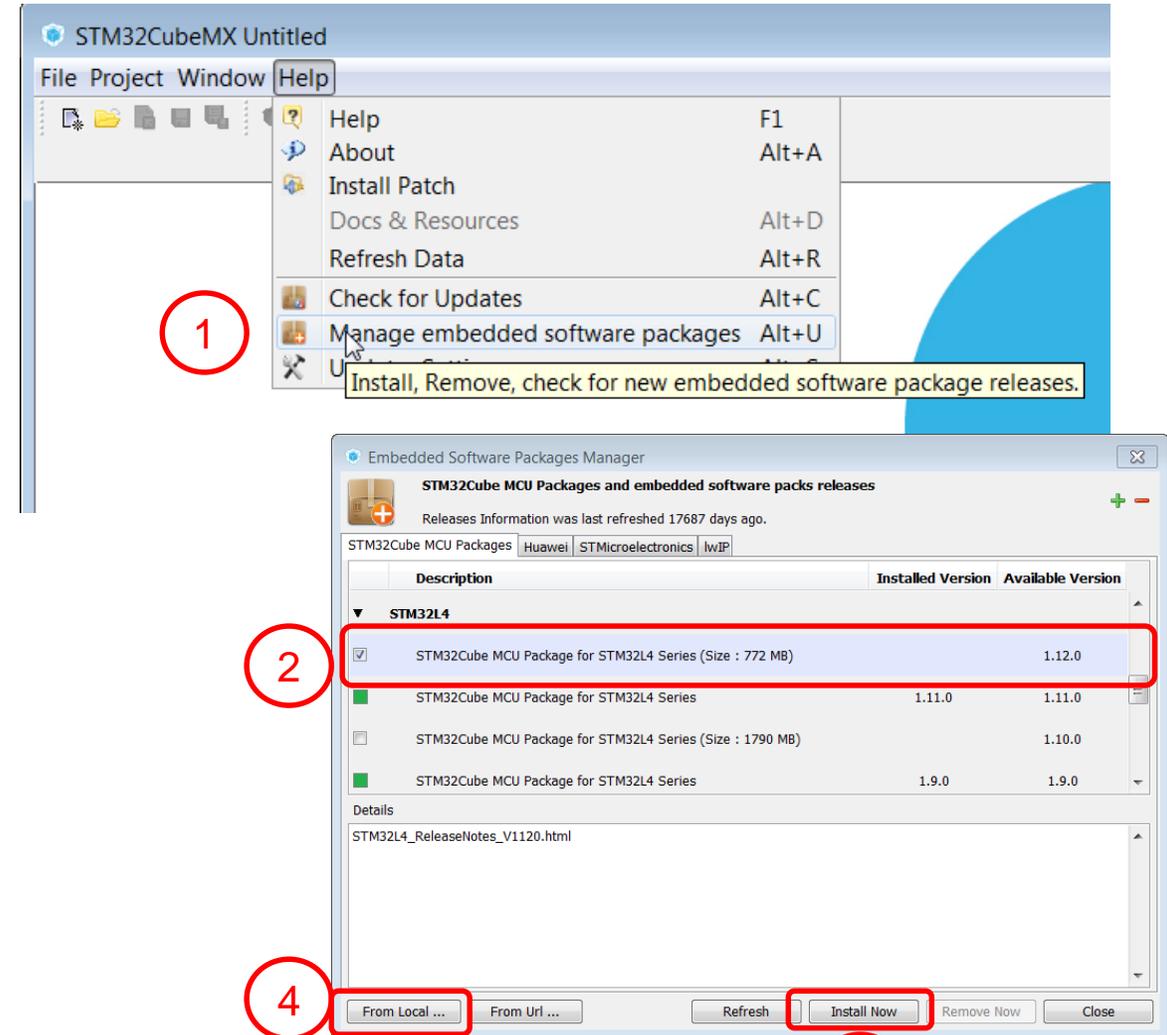
STM32CubeMX Install

- Install STM32CubeMX by executing:
SetupSTM32CubeMX-4.26.0.exe
- Important:
The STM32CubeMX requires Java Run Time Environment 1.8 (JRE version 1.8.0_45 or newer). Download from <https://java.com/download> and install.
 - The download cannot be done using Google Chrome, so use another Internet Browser



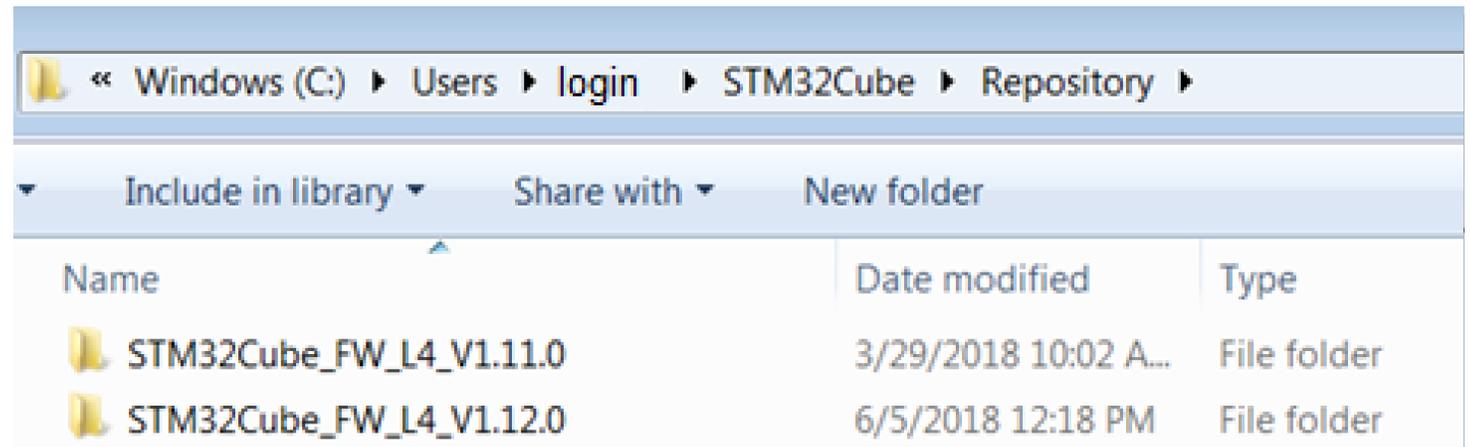
STM32CubeMX Configuration

- Important: The STM32CubeMX tool requires the latest STM32Cube MCU packages to be downloaded.
 - Download latest firmware library packages by launching STM32CubeMX and selecting Help -> Manage embedded software packages **1**
 - Make sure to download and install the latest “STM32Cube MCU Package for STM32L4” by checking the corresponding version **2** and clicking on Install Now button **3**
- Or, in case your company use a proxy and you don't know how to configure it, download the STM32CubeL4 package from: www.st.com/stm32cubel4
 - and use the From Locals... button **4**



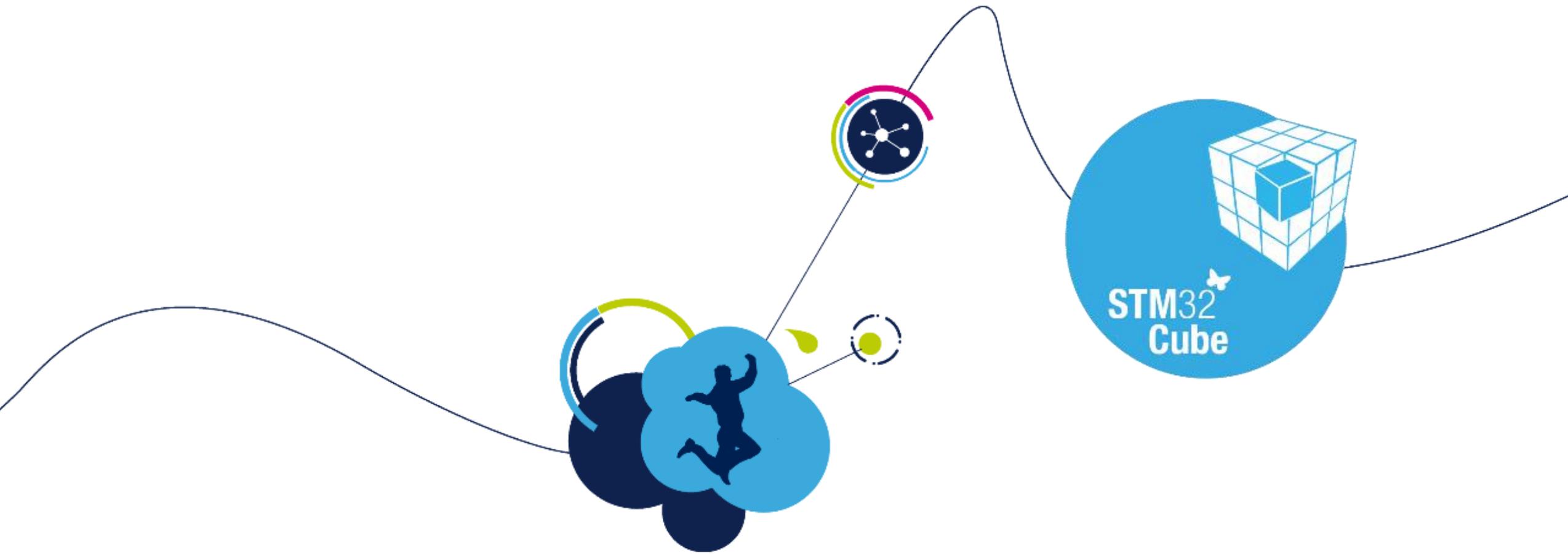
STM32CubeMX verification

- Confirm that the libraries are downloaded. Files should be in the Repository folder.
 - Help->Updater Settings->Repository folder:
Default:
C:/Users/{your_login}/STM32Cube/Repository



The screenshot shows a Windows File Explorer window with the address bar displaying the path: Windows (C:) > Users > login > STM32Cube > Repository. The main area shows a table of files and folders.

Name	Date modified	Type
STM32Cube_FW_L4_V1.11.0	3/29/2018 10:02 A...	File folder
STM32Cube_FW_L4_V1.12.0	6/5/2018 12:18 PM	File folder



Terminal emulator for UART communication

Terminal emulator Download and Install

- You can choose any terminal emulator of your choice.
- Anyway here are 2 references which we have some experiences with:

Tera Term

- Download from <https://tera-term.en.lo4d.com/>

Termite 3.2 (by CompuPhase)

- Download from https://www.compuphase.com/software_termite.htm

- ✓ Download and install Atollic TrueStudio
- ✓ Download and install STM32CubeProgrammer
- ✓ Download and install STM32CubeMX
- ✓ Download and install STM32Cube MCU Package for STM32L4 aka STM32CubeL4
- ✓ Download and install any terminal application (i.e. Termite, Tera Term or any other)

Now we are ready for the session!



f /STM32

t @ST_World

e2e st.com/e2e

www.st.com/mcu