

Mbed/Keil Project Setup

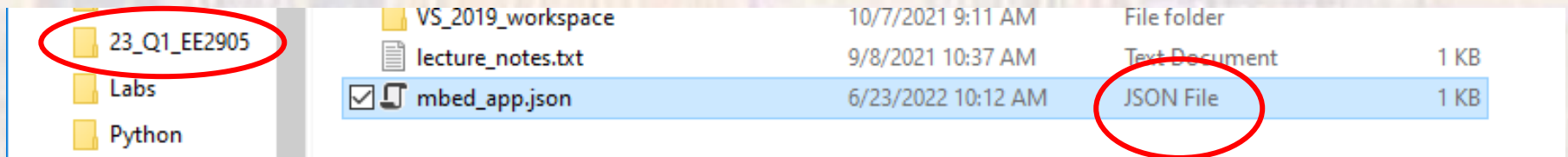
Last updated 6/28/22

EE2905 – Mbed/Keil Project Setup

- Mbed/Keil Project
 - Collection of files associated with a program
 - Stored in the cloud
 - Can be archived to ensure future access
- Mbed OS
 - Most of the class we will be using a small version of the OS
 - → Need to enable the Bare-Metal profile
- Mbed OS 6.xx Issues
 - The latest version of the OS limits the ability to print by default
 - → Need to re-enable the full printf capability

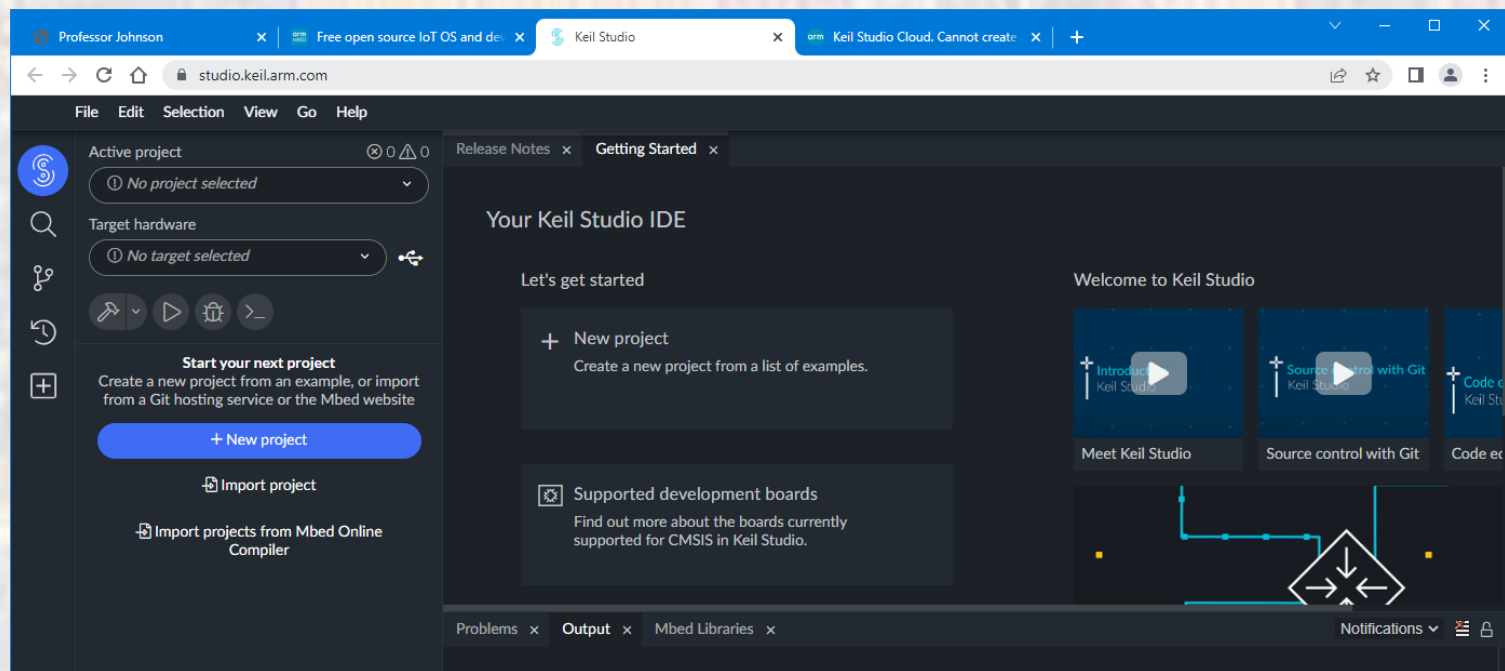
EE2905 – Mbed/Keil Project Setup

- MBED/Keil Project JSON setup
 - Go to the [lab web page – Week 1](#)
 - Rt click on the [mbed_app.json](#) file link
 - Select [save link as...](#)
 - Place the file someplace easy to get to ([EE2905 directory](#))
 - Verify the file was saved as a [JSON File](#)



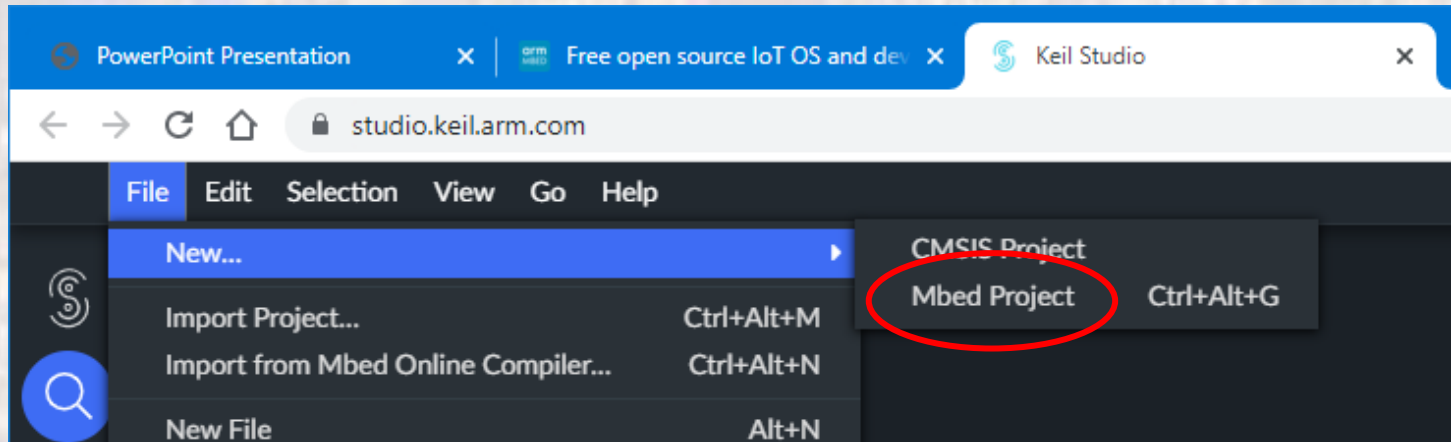
EE2905 – Mbed/Keil Project Setup

- MBED/Keil Project Creation
 - Go to <https://os.mbed.com/>
 - Login (upper right corner) if necessary
 - Open the **Keil Studio Cloud IDE** (upper right corner – yellow)

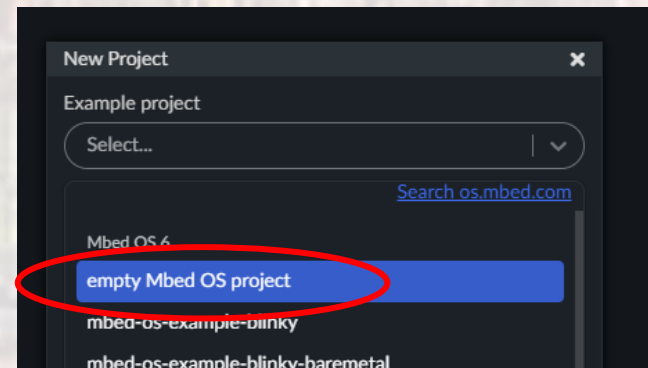


EE2905 – Mbed/Keil Project Setup

- MBED/Keil Project Creation
 - Select File → New → Mbed Project

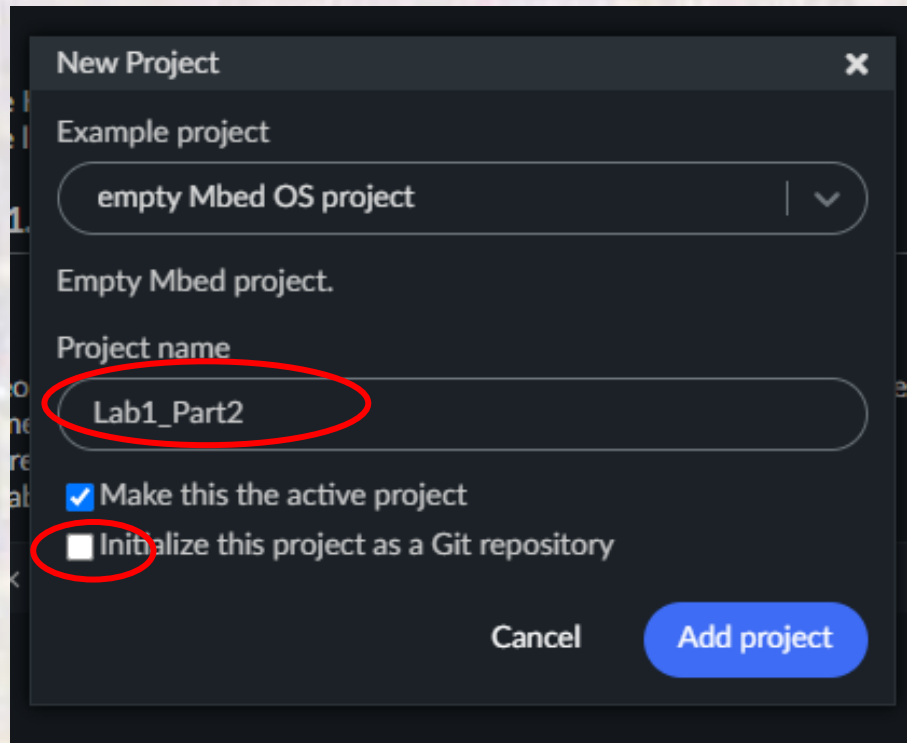


- Select empty Mbed OS project



EE2905 – Mbed/Keil Project Setup

- MBED/Keil Project Creation
 - Fill in the project name – eg Lab1_Part2
 - Uncheck the Initialize this box
 - Select Add project

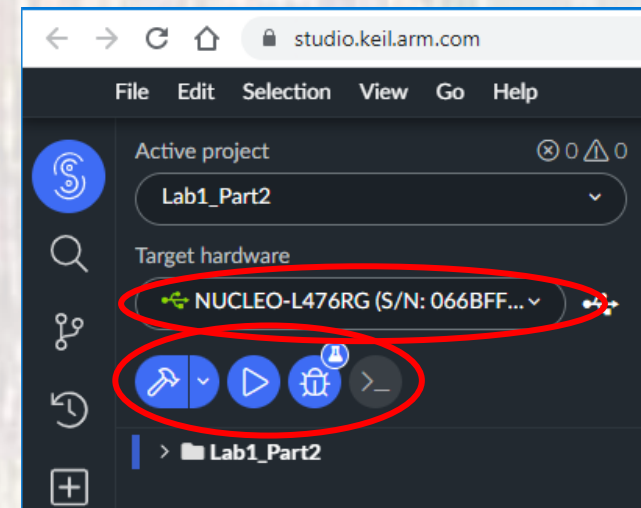
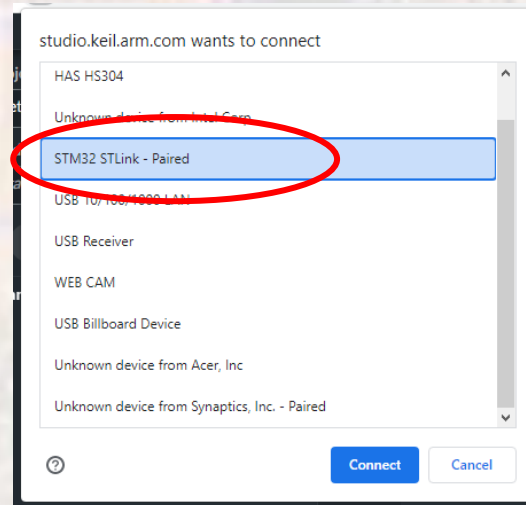
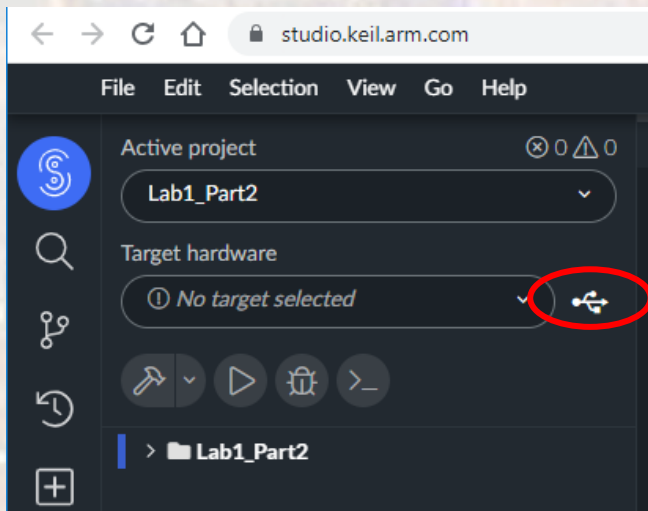


EE2905 – Mbed/Keil Project Setup

- MBED/Keil Project Creation

- Plug in your Nucleo board
- Select the Connection icon next to the No target selected box
- Select STM32 STLink – Paired from the list
- Select Connect
- Select yes in the popup dialog box

This may happen automatically



EE2905 – Mbed/Keil Project Setup

- MBED/Keil Project Creation
 - **rt-click** on the **project folder** and select **Upload Files..**
 - **select** the **mbed_app.json** file saved earlier

