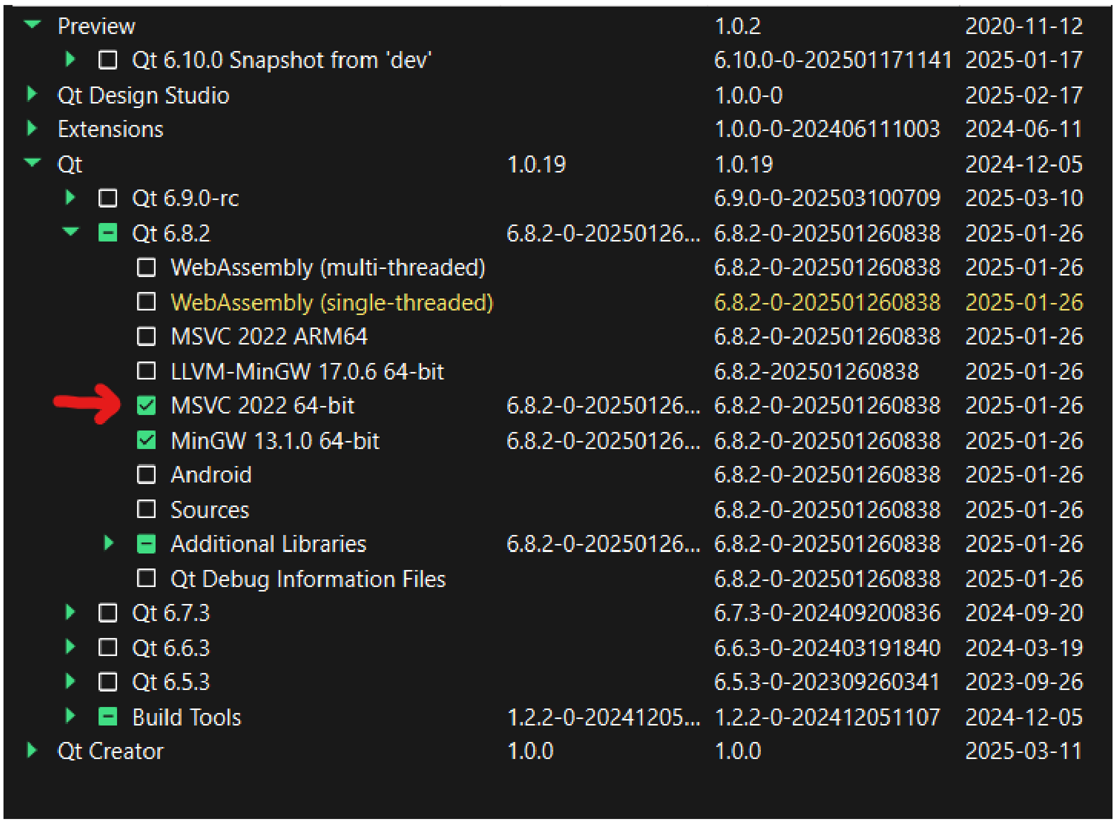
Nullzec Qt Application Instructions to make it work on Windows:

Stack needed:

- Qt version 6.8.2 **with** msvc 2022 64-bit kit
- MS Visual Studio 2022

How to set up Qt on Visual Studio:

- After installing the required Qt version and the kit, configure VS to run the Qt client application.



▾ Preview		1.0.2	2020-11-12
▸ ☐ Qt 6.10.0 Snapshot from 'dev'		6.10.0-0-202501171141	2025-01-17
▸ Qt Design Studio		1.0.0-0	2025-02-17
▸ Extensions		1.0.0-0-202406111003	2024-06-11
▾ Qt	1.0.19	1.0.19	2024-12-05
▸ ☐ Qt 6.9.0-rc		6.9.0-0-202503100709	2025-03-10
▾ ▬ Qt 6.8.2	6.8.2-0-20250126...	6.8.2-0-202501260838	2025-01-26
☐ WebAssembly (multi-threaded)		6.8.2-0-202501260838	2025-01-26
☐ WebAssembly (single-threaded)		6.8.2-0-202501260838	2025-01-26
☐ MSVC 2022 ARM64		6.8.2-0-202501260838	2025-01-26
☐ LLVM-MinGW 17.0.6 64-bit		6.8.2-202501260838	2025-01-26
✓ MSVC 2022 64-bit	6.8.2-0-20250126...	6.8.2-0-202501260838	2025-01-26
✓ MinGW 13.1.0 64-bit	6.8.2-0-20250126...	6.8.2-0-202501260838	2025-01-26
☐ Android		6.8.2-0-202501260838	2025-01-26
☐ Sources		6.8.2-0-202501260838	2025-01-26
▸ ▬ Additional Libraries	6.8.2-0-20250126...	6.8.2-0-202501260838	2025-01-26
☐ Qt Debug Information Files		6.8.2-0-202501260838	2025-01-26
▸ ☐ Qt 6.7.3		6.7.3-0-202409200836	2024-09-20
▸ ☐ Qt 6.6.3		6.6.3-0-202403191840	2024-03-19
▸ ☐ Qt 6.5.3		6.5.3-0-202309260341	2023-09-26
▸ ▬ Build Tools	1.2.2-0-20241205...	1.2.2-0-202412051107	2024-12-05
▸ Qt Creator	1.0.0	1.0.0	2025-03-11

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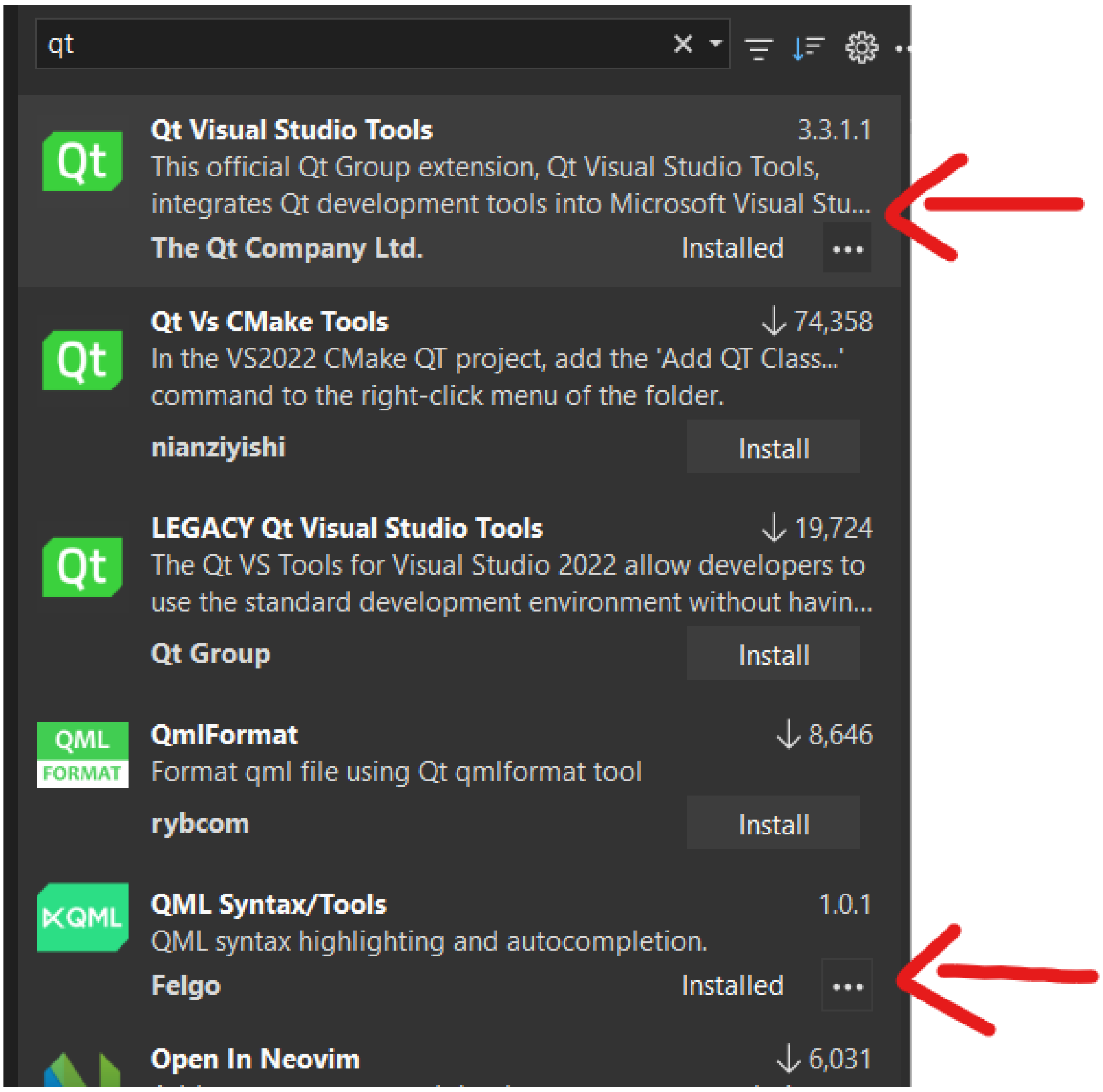
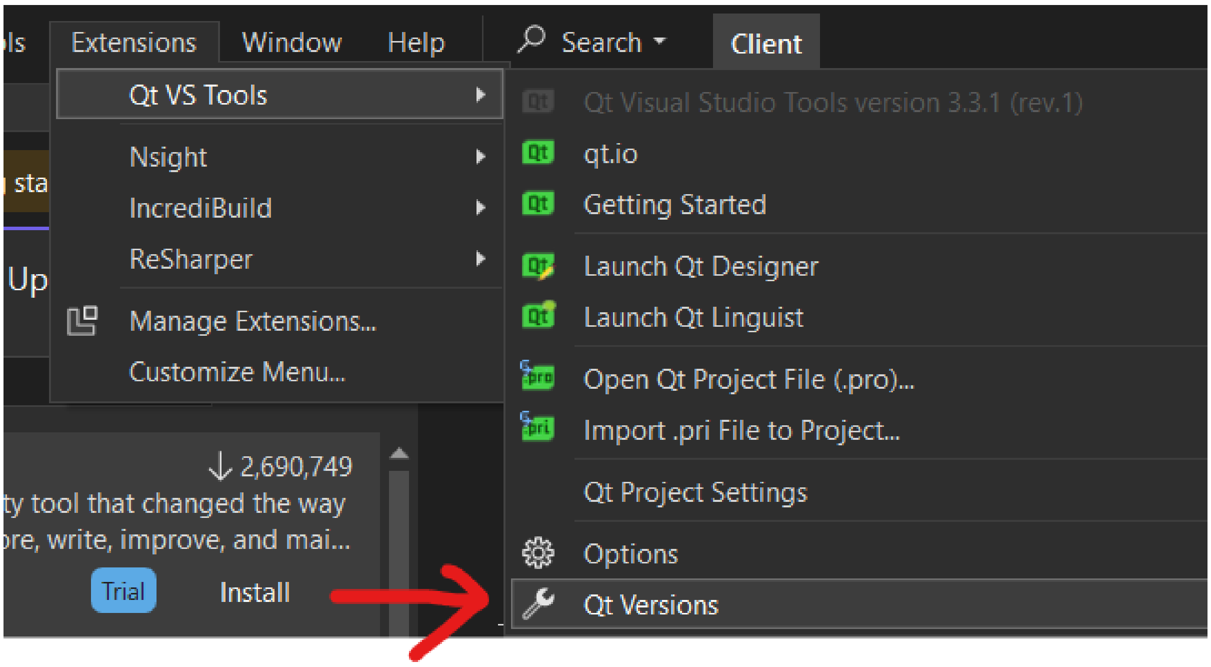
- Install **Qt Visual Studio Tools** and **QML Syntax/Tools** extensions on VS, as shown in the image below:

- 
qt
Qt Visual Studio Tools 3.3.1.1
This official Qt Group extension, Qt Visual Studio Tools, integrates Qt development tools into Microsoft Visual Stu...
The Qt Company Ltd. Installed
Qt Vs CMake Tools ↓ 74,358
In the VS2022 CMake QT project, add the 'Add QT Class...' command to the right-click menu of the folder.
nianziyishi Install
LEGACY Qt Visual Studio Tools ↓ 19,724
The Qt VS Tools for Visual Studio 2022 allow developers to use the standard development environment without havin...
Qt Group Install
QmlFormat ↓ 8,646
Format qml file using Qt qmlformat tool
rybcom Install
QML Syntax/Tools 1.0.1
QML syntax highlighting and autocompletion.
Felgo Installed
Open In Neovim ↓ 6,031
- Once installed, go to **Qt Versions** and select the ***qmake.exe*** in the msvc2022_64 folder. It should be in the bin folder.


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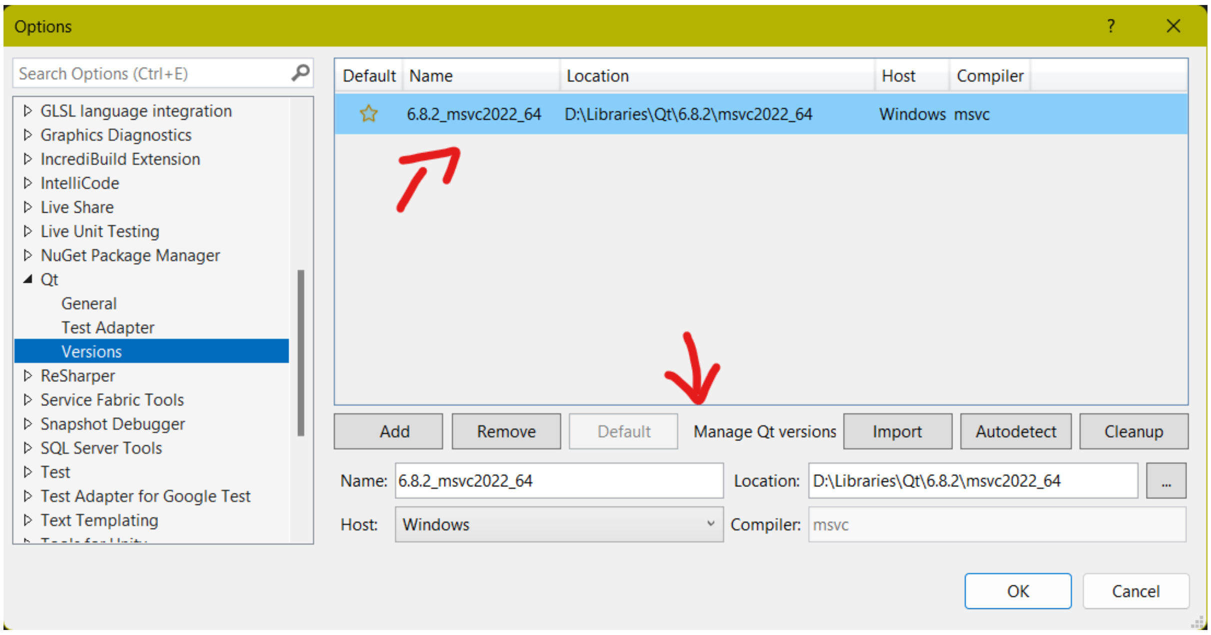
- 

Default	Name	Location	Host	Compiler
☆	6.8.2_msvc2022_64	D:\Libraries\Qt\6.8.2\msvc2022_64	Windows	msvc

Name: 6.8.2_msvc2022_64 Location: D:\Libraries\Qt\6.8.2\msvc2022_64

Host: Windows Compiler: msvc

Other instructions:

- The client application has a kill switch. When it fails to receive message from the server, it will reinitialize after a certain number of re-tries.
- The client will exit when no server is found to connect to. You must have the server running before you run the client.
- I am sending only the modified rects, although it may have O(width * height) as the worst case complexity, it usually ends up with O(log(width * height)).
- I have kept the old code in the project either commented out of the way or in unused files and classes. I have kept the actual code clean. This is to show my learning process as I was figuring out 2 libraries: Qt, and vncserver and vncclient.
- I tried sending frame buffer in packets via UDP. However, there involved quite a bit of logic to assemble the packets on the client side into meaningful buffer. Given more time, I can achieve this. However, I am now only sending modified chunks in 256x256 rects to the client. The block size can be adjusted.
- Please find the Constants.h file that stores all the constant variables on the server side.
- For a bigger application, I would compartmentalize the code on the server side into multiple classes. Although, it is getting big already.

Thank you for giving me this wonderful opportunity.