Nano node build on Windows 10

Install windows 10

Run windows update and restart windows

Visual Studio 2019

Install Visual Studio Community 2019 (version 16.11) https://visualstudio.microsoft.com/vs/older-downloads/

Make sure to tick "Desktop development with C++" and leave everything else at default

Boost

Install Boost 1.74.0 binaries for msvc 14.2. Use default settings during install

https://sourceforge.net/projects/boost/files/boost-binaries/1.74.0/boost_1_74_0-msvc-14.2-64.exe/download

CMAKE

Install Cmake windows installer, Latest Release (currently 3.22.3)

https://cmake.org/download/

Check the option 'Add cmake to system path for all users'

GIT

Download a git tool of choice. I used Github desktop https://desktop.github.com/

Clone the Nano node develop branch from Github

from URL https://github.com/nanocurrency/nano-node

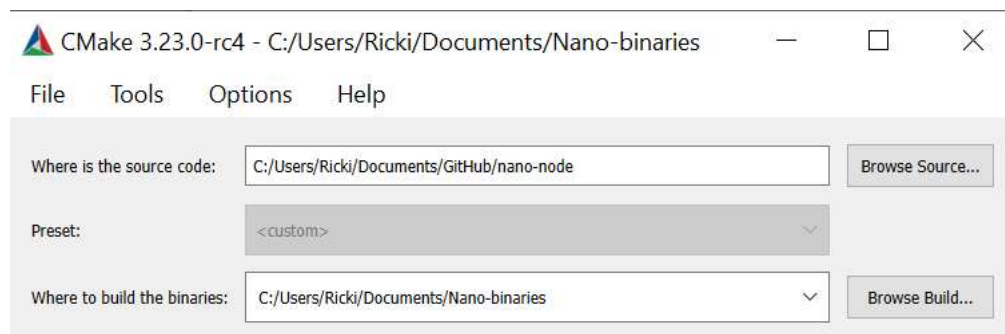to C:/Users/Ricki/Documents/GitHub/nano-node

- Restart windows -

Setting up the solution

Run Cmake gui
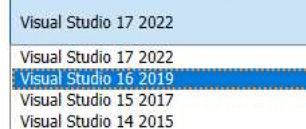
Set source to C:/Users/Ricki/Documents/GitHub/nano-node

Create a folder for the destination files. I Used C:/Users/Ricki/Documents/NanoSolution

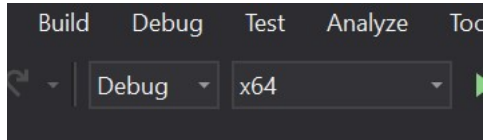Click configure and select visual studio 2019

Set any options you want like the ACTIVE_NETWORK but leave NANO_GUI off because this requires qt to be installed

Click generate and close Cmake

Visual studio 2019

Open project solution file in C:\Users\Ricki\Documents\NanoSolution\nano-node-beta.sln

At the top of the screen select the build type (debug or release) and architecture

Now go to the build menu and select build

When build has finished you will find the compiled files at

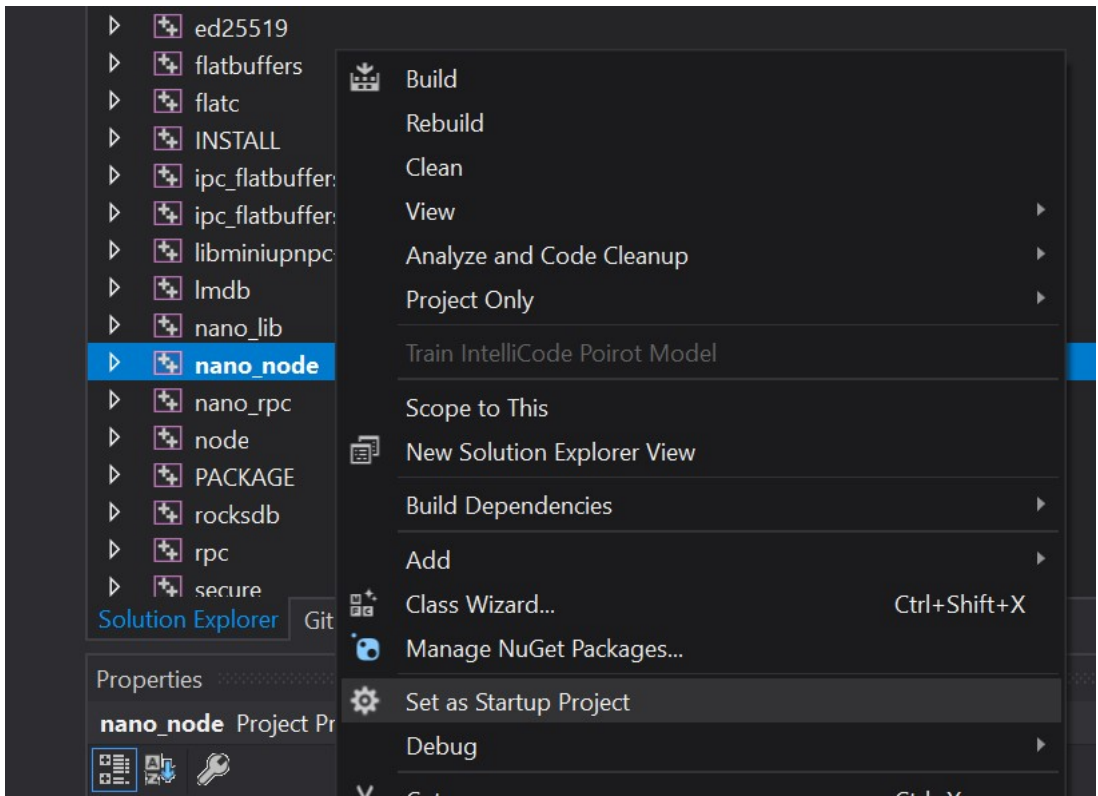C:\Users\Rickii\Documents\NanoBinaries\Debug

for debug build

or

C:\Users\Rickii\Documents\NanoBinaries\Release
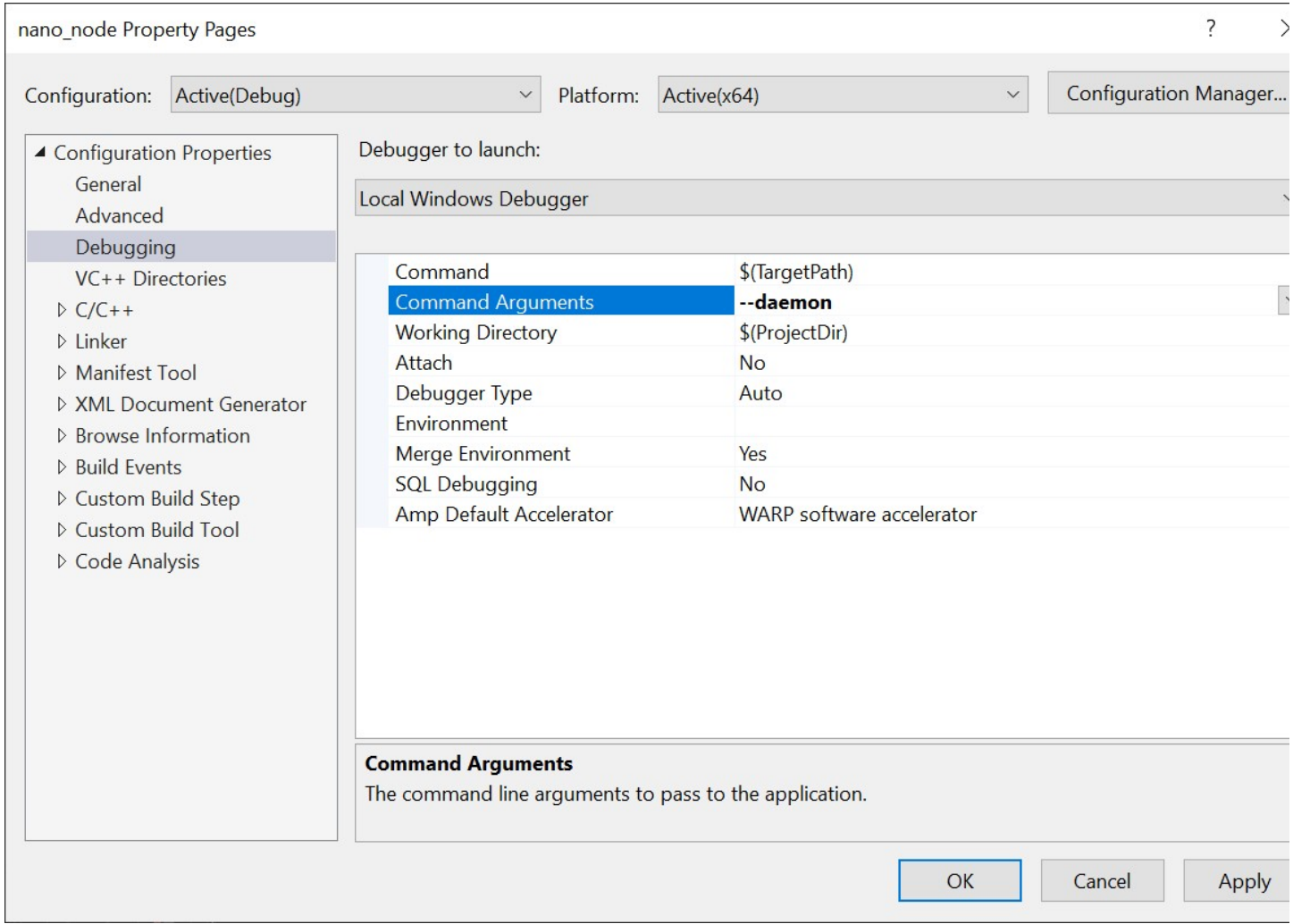
For Release build

Optional: Setup debugging

You can setup the node to stop at code breakpoints and then inspect values during runtime.

Find the nano_node project in the solution explorer on the right pane. Then right click it and select 'Set as startup project'

Now right click the nano_node project again and click properties

Go to configuration properties/debugging and set the 'Command Arguments' to "--daemon" an click OK

From visual studio just hit F5 to start debugging. When a breakpoint is hit, visual studio will halt the code and take focus