# **Build SW from Scratch**

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V0

The goals of this document is to describe how to build Multiscan binary from source code on a brand new PC.

## Build Linux virtual machine

T.B.D

## Build GUI application

1. On a Ubuntu 16.04 system install qt-creator-opensource-linux-x86\_64-4.10.0.run. Copy exist on the server.
2. Clone the repository of the code:  
   git clone <https://github.com/rond-mstech/ExploscanV3>
3. Install arm tools there is a copy on the server  
   fslc-framebuffer-glibc-x86\_64-fsl-image-qt5-armv7at2hf-neon-toolchain-2.5.2.sh.tar.gz
4. Run the tools script   
   . /opt/fslc-framebuffer/2.5.2/environment-setup-armv7at2hf-neon-fslc-linux-gnueabi
5. Run QT  
   ./qtcreator-4.10.0/bin/qtcreator
6. Open the project ExploscanV3.pro clean and build.

## Build multiscan\_bsl application

1. Make sure 1,3,4,5 above are done.
2. Clone the repository of the code:  
   git clone <https://github.com/rond-mstech/multiscan_bsl>
3. Open the project Multiscan\_bsl.pro clean and build.

## Build MstAlgPlugin application

1. Make sure 1,3,4,5 above are done.
2. Clone the repository of the code:  
   git clone https://github.com/rond-mstech/msAlgPlugin
3. Open the project MstAlgPlugin.pro clean and build.
4. Each algorithm need to repeat with a change in the pro file  
   #CONFIG += algE70\_12

#CONFIG += algE200\_04

#CONFIG += algE300\_01

#CONFIG += algE100\_05

CONFIG += algE100\_07

#CONFIG += algL100\_02

#CONFIG += algN03\_01

#CONFIG += algN100\_05