

07.Mai 2022

Important Note:

A)Please remove previous versions before installing a new version.

B)Installation path containing "SPACE" char's does not work.

What is LazToApk?

To build a piece of software which can be installed on an android device, you need Java JDK, Android SDK, Android NDK, ANT and laz4android.

LazToApk is a software which will help you to configure all these needed 3rd-Party Tools.

What's new?

See changes file [.\changes.txt](#)

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Requirements

- Windows (I tested on Win10)
- At least 9GByte free disk space.
- A quick internet connection, because 1.3GByte needs to be downloaded.
- Recommended: a real Android Device (Smartphone or Tablet) because the Android Emulator is very slow!

Note: The whole installation may take 30 minutes!

Setup the tools to create an Android App with Lazarus/Free Pascal

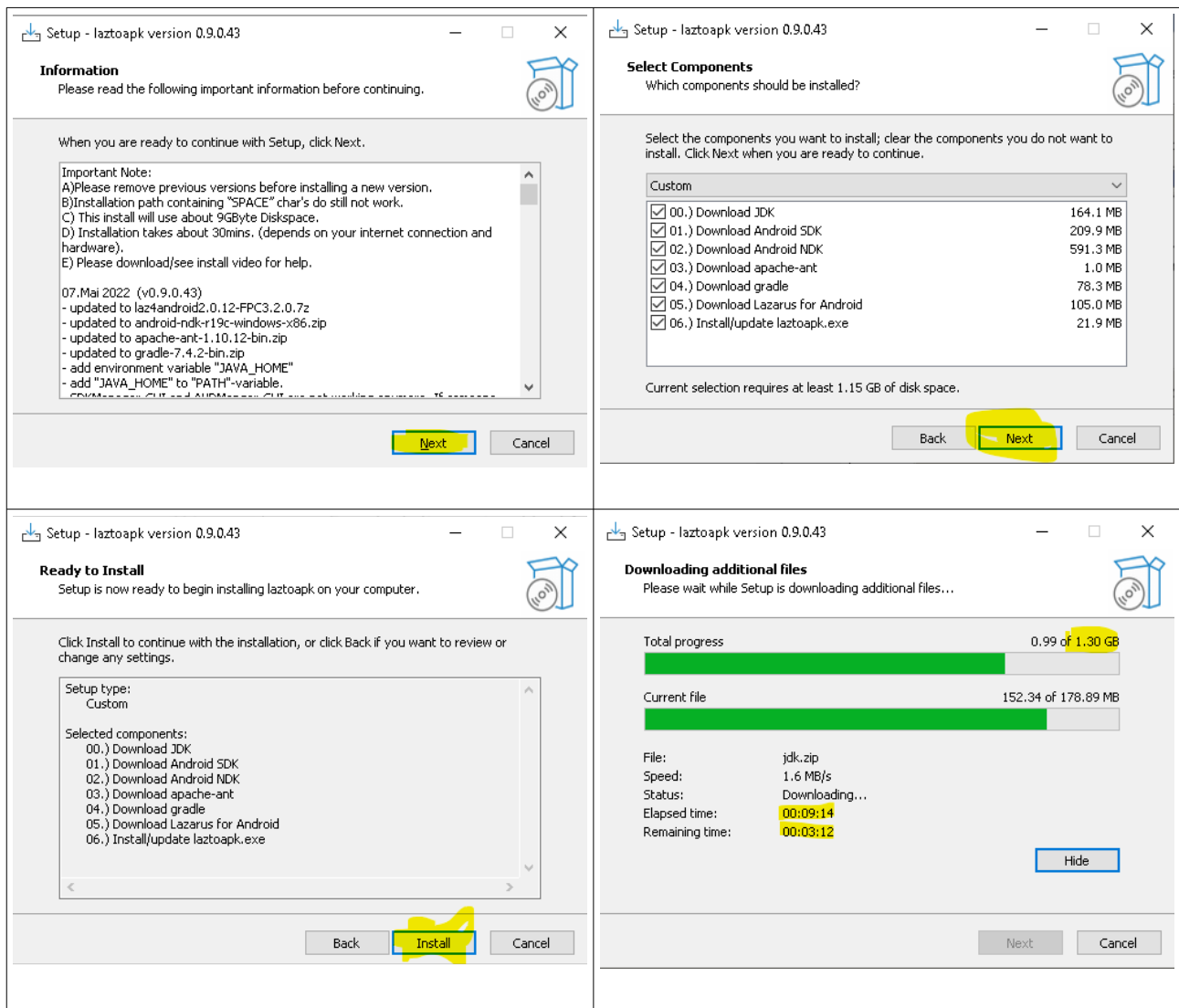
Please follow **exactly** this instructions, otherwise the chance is very high that your final app will not work!

I tested on windows 10.

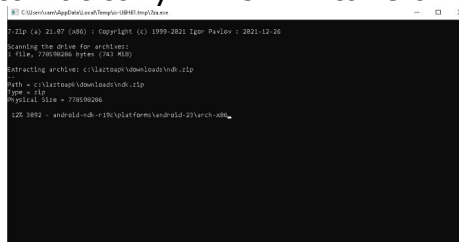
Step 01: Download&Install LazToApk

LazToApk → [Download the setup from here.](#) (sourceforge.net)

Run the setup.

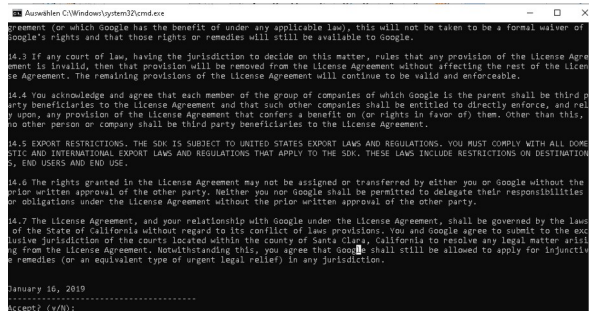


You can now go for a coffee! No user-action is required the next 20 minutes. The download took on my machine about 16 Minutes. After the download, the files will be un-zipped automatically. This will take another 2 minutes.



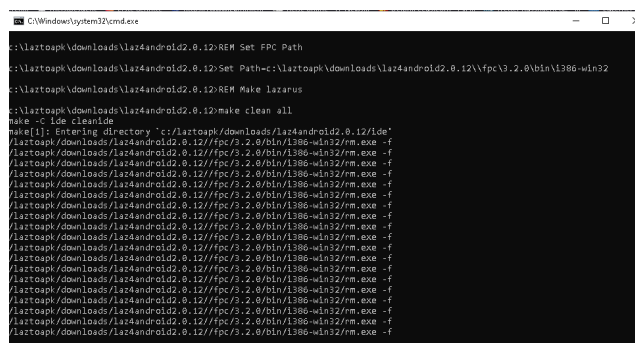
After unzipping the file, some more SDK stuff is downloaded.

Here the user has to confirm the licence agreement. Type <y> and press <ENTER>.



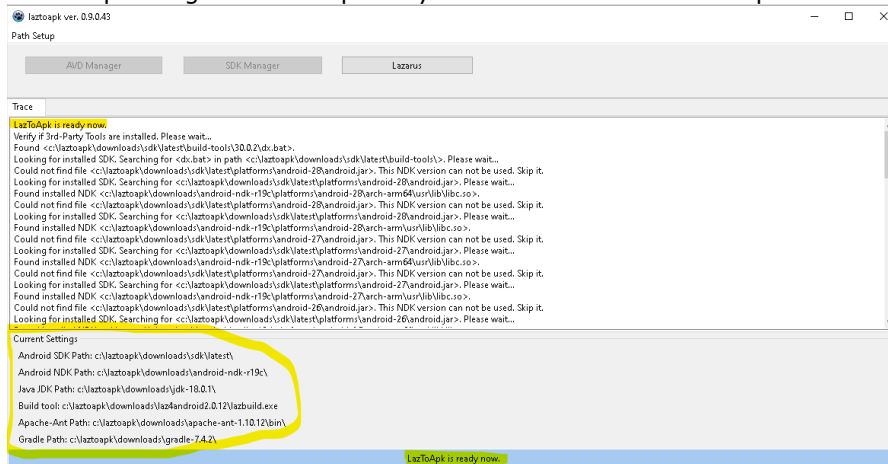
The download of this additional SDK stuff takes another 5 minutes.

At the end of setup the batch-file <build.bat> gets automatically started.
→ laz4android get's compiled. This may take a while and look's something like this.



Step 02: Start&Configure LazToApk for the first time

The application <LazToApk> will be started.
LazToApk will verify if the folder's for JDK,SDK,NDK,ANT,GRADLE and the tool lazbuild.exe is available.
If everything went fine, it should look like this:
(If not, then a path setup dialog will show up and you must select the correct path manually.)

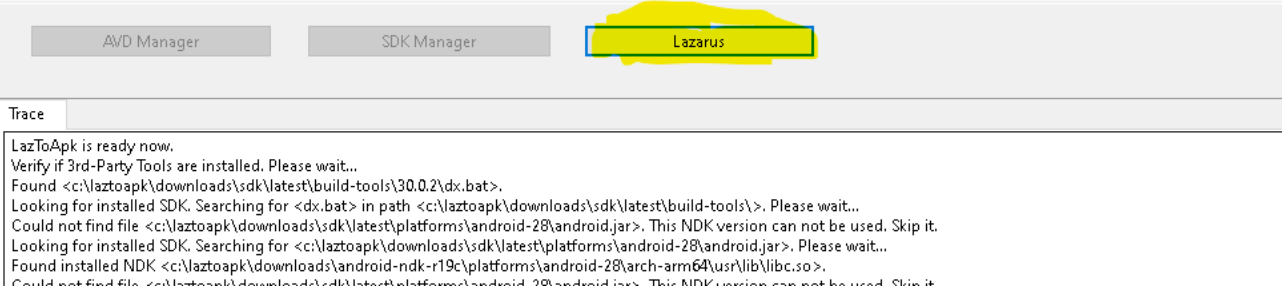


Step 03: Start Lazarus and install packages.

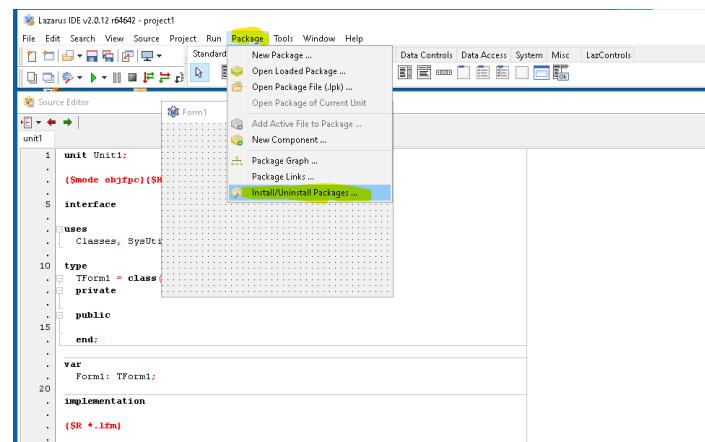
Start Lazarus by clicking onto Button *<Lazarus>*.

laztoapk ver. 0.9.0.43

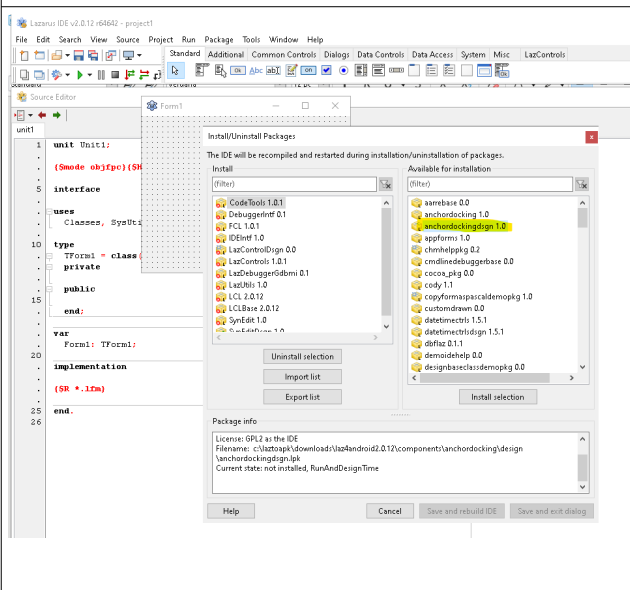
Path Setup



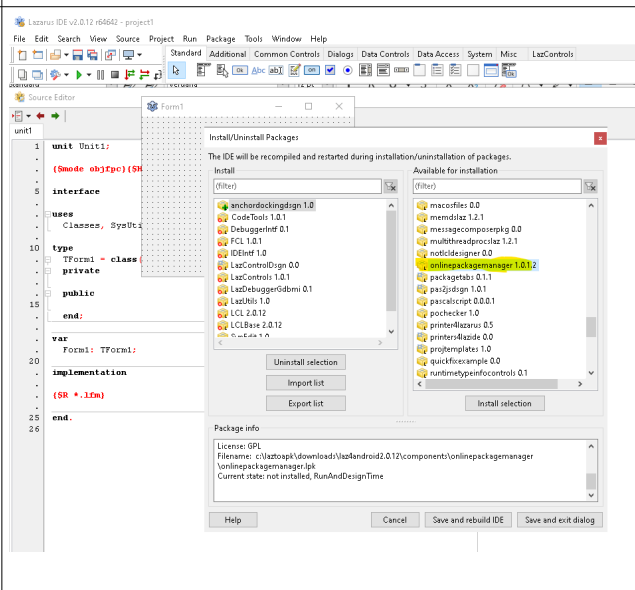
The Lazarus IDE should show up. Choose *<Package>*, *<Install/Uninstall Packages>*.



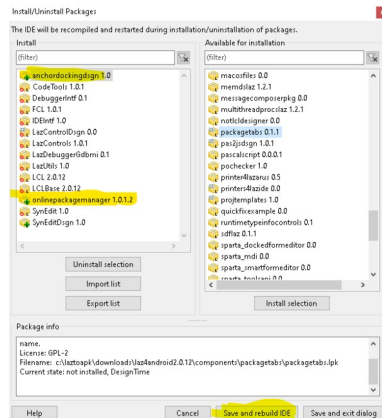
Double-Click onto package
<anchordockingdsgn>.



Double-Click onto package
<onlinepackagemanager>.



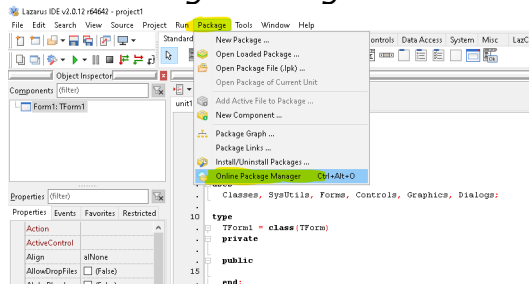
Press Button *<Save and Rebuild IDE>*



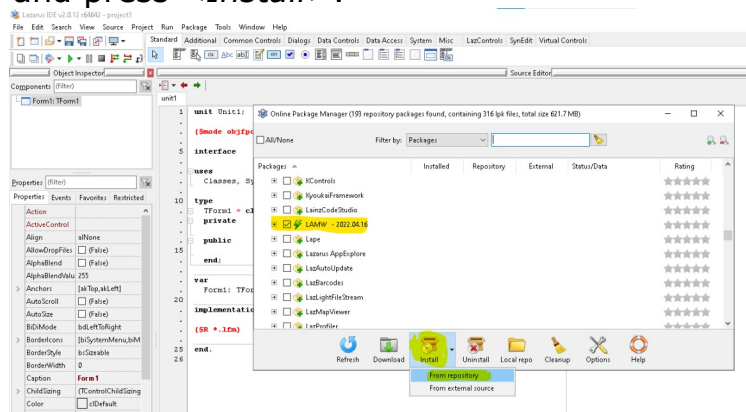
The Lazarus IDE gets rebuilt and restarted. This may take a while.

Step 04: Install LAMW (Lazarus Android Module Wizard)

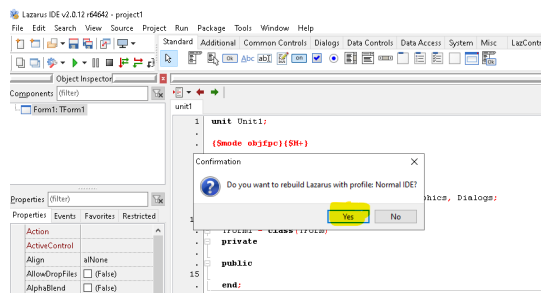
Choose *<Package> <Online Package Manager>*



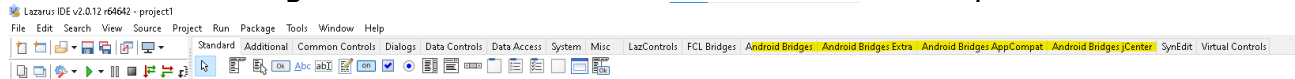
Select *<LAMW>* and press *<Install>*.



The package get's downloaded and installed. After a while the following dialoge pops up. Press *<Yes>*.

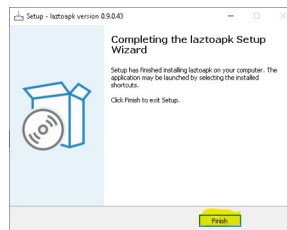


The Lazarus IDE gets rebuilt and should now have new component-tabs.

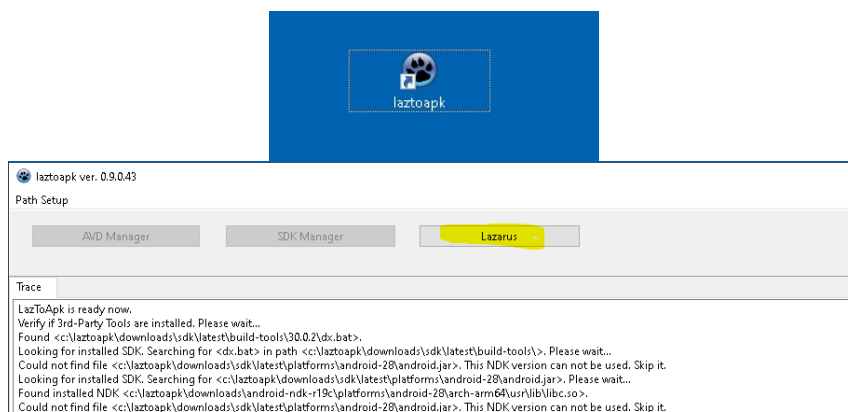


Step 05: Restart LazToApk

Close Lazarus.
Close LazToApk.
Close the setup.

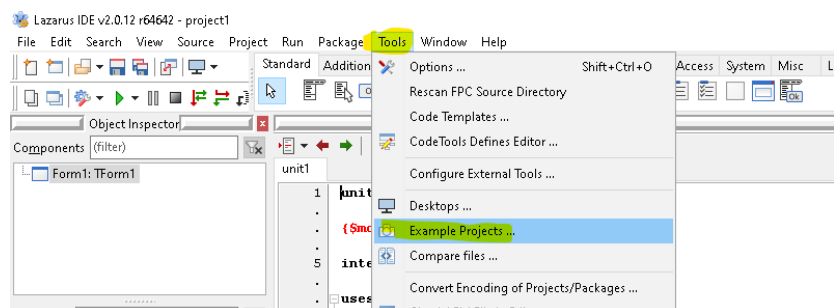


Start LazToApk again by clicking on the icon on your desktop.

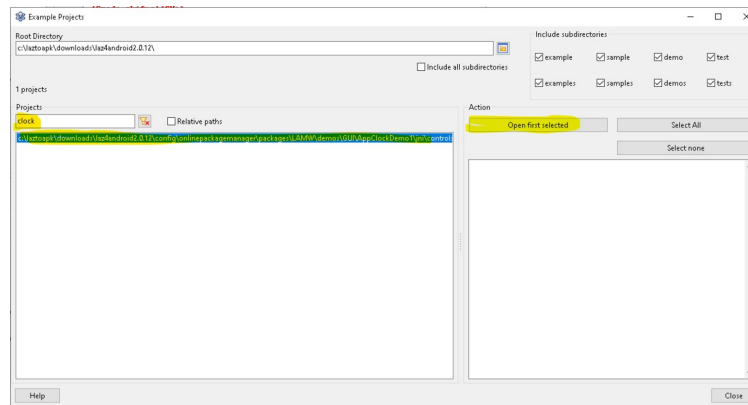


Step 06: Build your first Android App

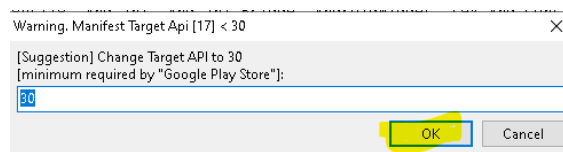
Choose *<Tools> <Example Projects>*.



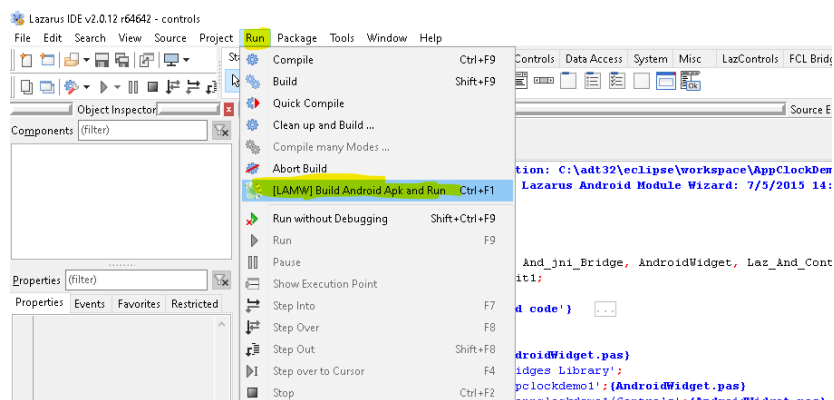
Type *<clock>* and select the entry, then press *<Open first selected>*.



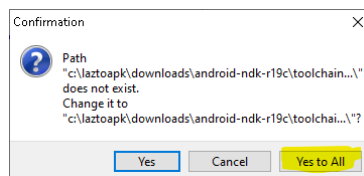
Press <OK>.



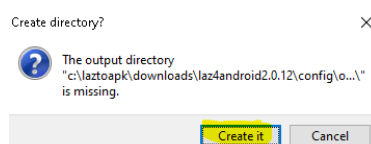
Choose <Run> <[LAMW] Build Android Apk and Run>



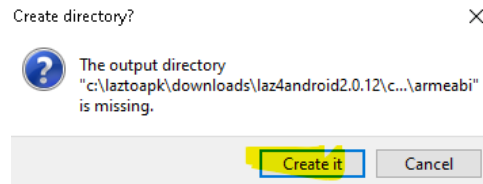
Press <Yes to All>.



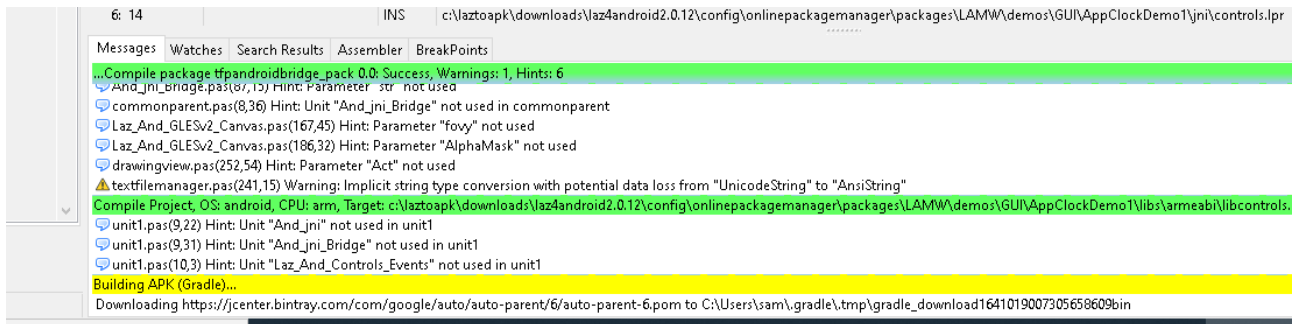
Press <Create it>.



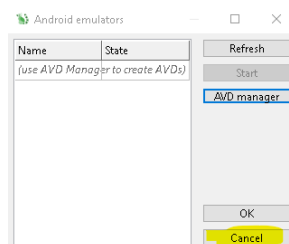
And again press *<Create it>*.



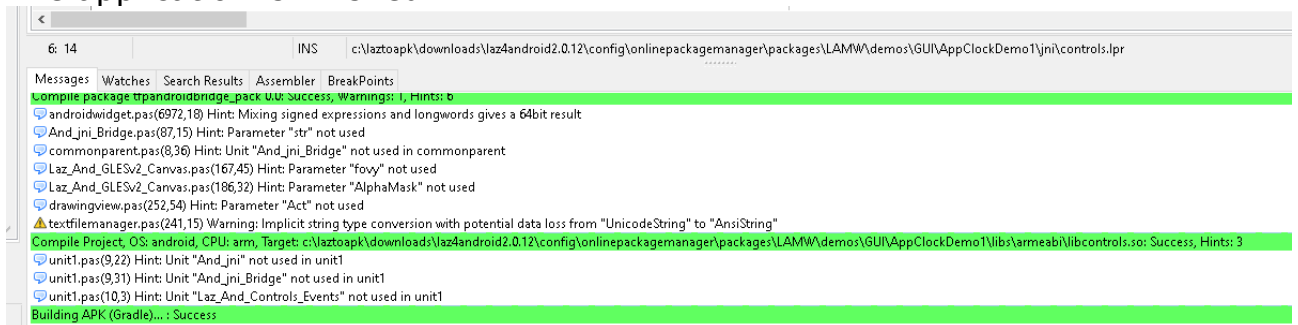
Because this is the first build, Gradle will download some more stuff. This takes a while. Be patient...



After a while, the following dialog will show up.
Press *<Cancel>*.



The application is finished.



You can copy now the apk-file onto your device and install it.

