Building an Android HTTP Server on Windows using ServerCore.cpp in the XMLFoundation

Download and install the latest Android NDK (developer.android.com/tools/sdk/ndk/index.html)

Do not put a space in the path name that you unzip the NDK into.

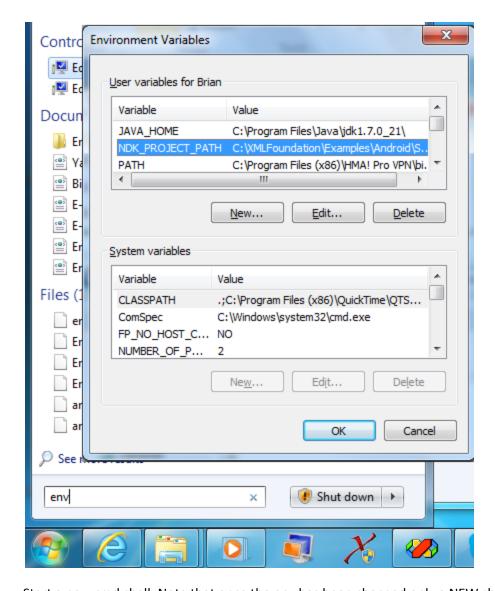
Download and install the latest Android SDK (http://developer.android.com/sdk/index.html)

Download and install the latest JDK (Java Development Kit) http://www.oracle.com/technetwork/java/javase/downloads/index.html

As shown in the following image,

Add the JAVA_HOME to where you have the JDK installed. Note: on 8/25/2015 the default jdk folder was "C:\Program Files\Java\jdk1.8.0_60"

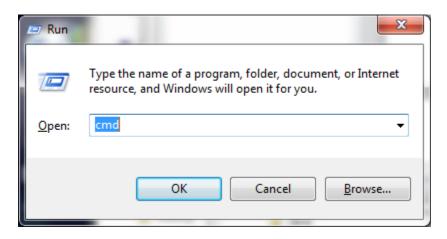
Add the NDK_PROJECT_PATH environment variable to where ever you have the [\XMLFoundation\Examples\Android\Server] folder from XMLFoundation



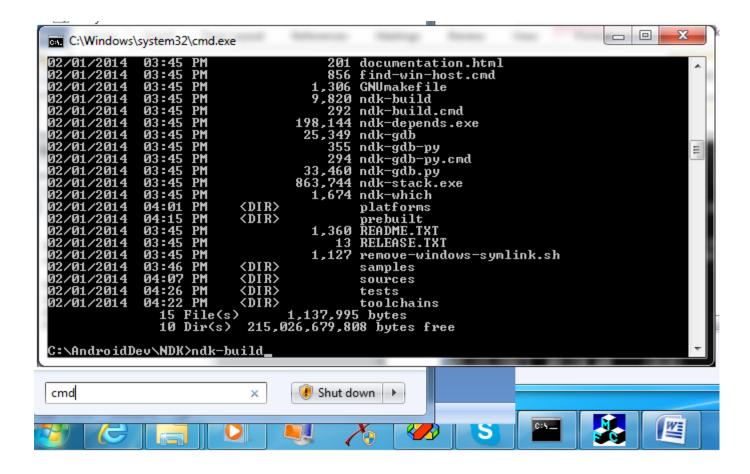
Start a new cmd shell. Note that once the env has been changed only a NEW shell will have the current env settings.

Start/Accessories/Command Prompt

Or "WindowKey-R" then type cmd. WindowKey is next to "Alt" and "R" is short for Run.

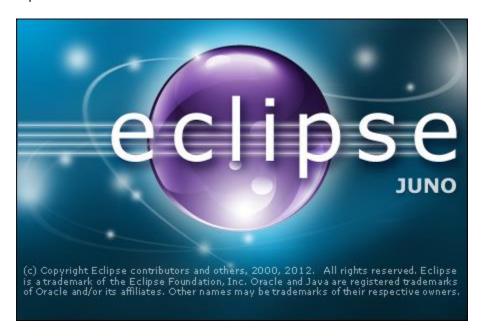


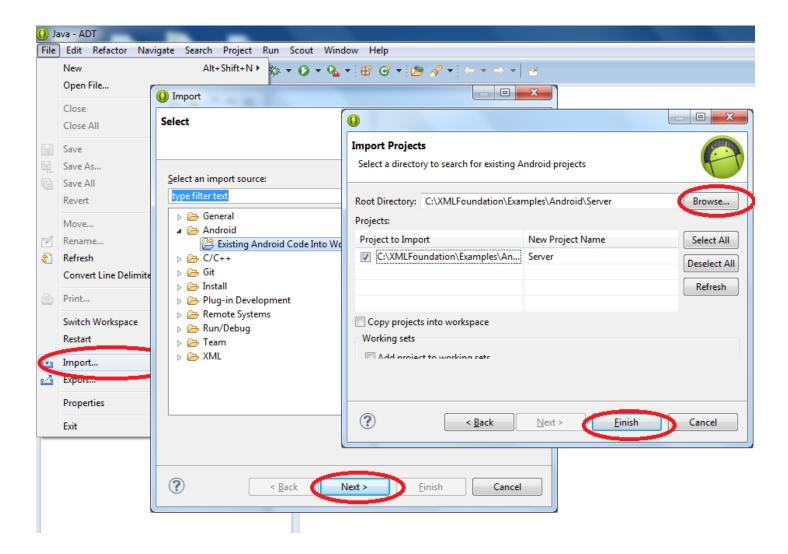
In the cmd shell, type "ndk-build" from the folder you unzipped the AndroidNDK into

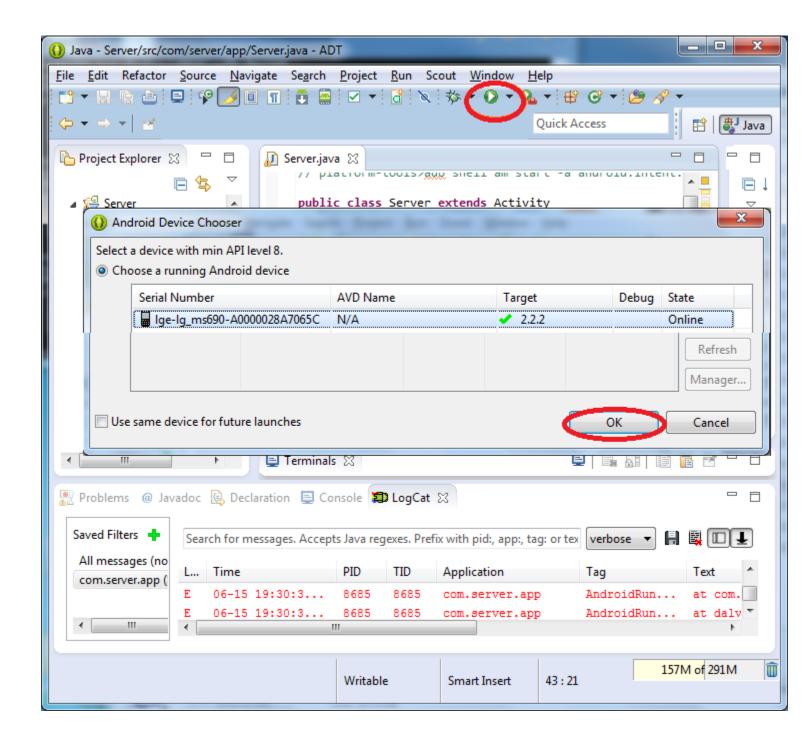


You will see this:

```
C:\Windows\system32\cmd.exe
              Compile++ thumb:
Compile++ thumb:
Compile++ thumb:
                                                         MemberDescriptor.cpp
[armeabi]
[armeabi]
                                          Server
                                                         FileDataSource.cpp
                                          Server <=
                                          Server <=
                                                         ObjQueryParameter.cpp
[armeabi]
              Compile++ thumb:
Compile++ thumb:
Compile++ thumb:
[armeabi]
[armeabi]
                                          Server <=
                                                         ProcedureCall.cpp
                                                         Schema.cpp
SocketHTTPDataSource.cpp
                                          Server <=
                                                                                                                              Ξ
[armeabi]
                                          Server
[armeabi] Compile++ thumb:
                                         Server <=
                                                         StackFrameCheck.cpp
                                                         xmlAttribute.cpp
xmlDataSource.cpp
                                          Server <=
                                          Server
                                                         xmlElement.cpp
xmlElementTree.cpp
XMLException.cpp
                                         Server <=
                                          Server
                                          Server <=
                                                         xmlLex.cpp
xmlObject.cpp
xmlObjectFactory.cpp
              Compile++ thumb:
[armeabi]
                                          Server <=
              Compile++ thumb:
                                         Server <=
[armeabi]
[armeabi]
                                          Server <=
                                                         XMLProcedureDescriptor.cpp
[armeabi]
                                          Server
                                         Server <=
                                                         SwitchBoard.cpp
[armeabi]
                                          Server <=
                                                          DynamicLibrary.cpp
[armeabi]
                                         Server <=
[armeabi]
                                                         IntegrationBase.cpp
               Compile++ thumb:
                                         Server <= IntegrationLanguages.cpp
[armeabi]
              StaticLibrary
SharedLibrary
[armeabi]
[armeabi]
                                          libstdc++.a
libServer.so
                                      :
[armeabil Install
                                          libServer.so => libs/armeabi/libServer.so
C:\AndroidDev\NDK>_
```

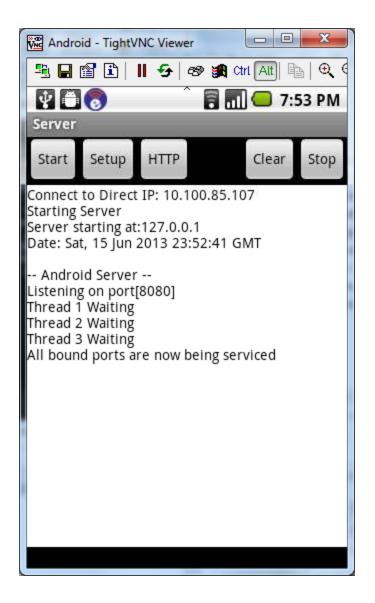






A picture is worth a thousand words.

It will run the HTTP server on your phone/tablet.



That's it. I hope this provides you a helpful starting point for your own project that now has a multithreaded TCP Server core and all the XMLFoundation tools available to you on Android.