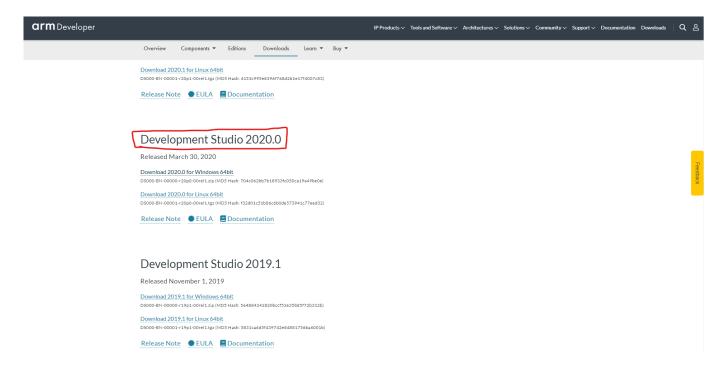
# **Arm Development Studio Tutorial**

### **Download Arm DS**

Download the software (Arm Development Studio).

→ Choose the version 2020.0 (highlighted on the following image) with the build: 202000915

https://developer.arm.com/tools-and-software/embedded/arm-development-studio/downloads



Install the software.

### **Server Configuration**

Password of the machine: ninjaCERTIFICADE

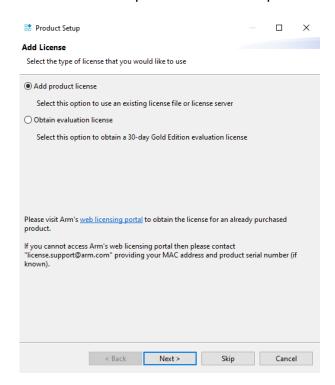
- 1. Open Imtools.exe ("search" or in C:/FlexNET/Imtools.exe).
- 2. Open the tab "Start/Stop/Reread" and click in "Start Server".
- 3. After starting it, on the tab "Server Status" click in "Perform Status Enquiry" to assure that the server is active.

When it's active the console has the following output:

"License server status: 8224@ESRGV3-SERVER"

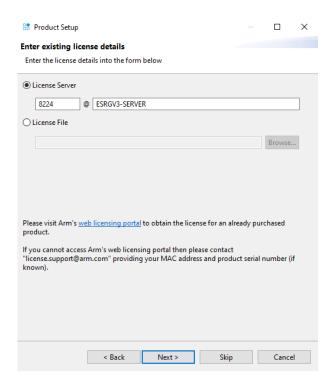
### License

After installing the sorftware, open it. The *Product Setup* window should open. Select the *Add product license* option.

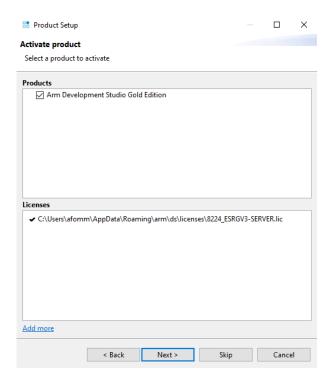


Select the *License Server* options and introduce the following server port and hostname:

#### 8224 @ ESRGV3-SERVER

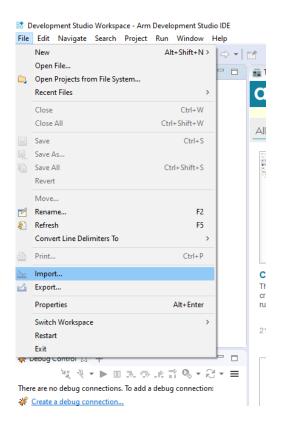


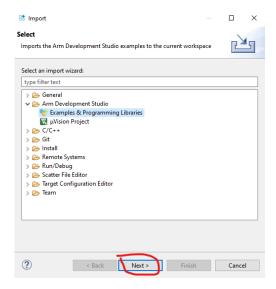
#### Click Next to activate the product



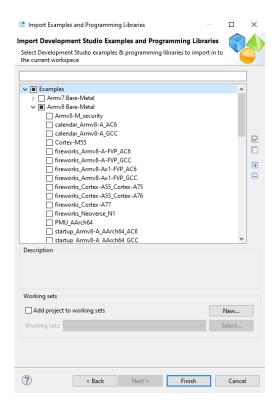
## **Setup Example Project**

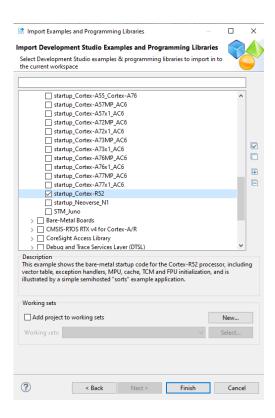
After activating the license select  $File \rightarrow Import$  and on the folder  $Arm\ Development$   $Studio\ choose\ the\ Examples\ \&\ Programming\ Libraries$ 



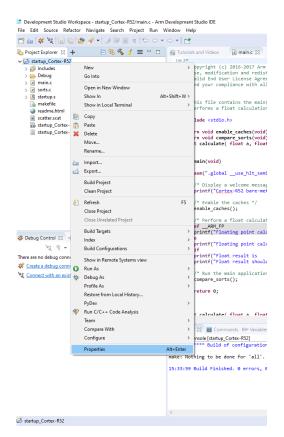


Then, to select the Cortex-R52 example, select *Examples* → *Armv8 Bare-Metal*. Scroll-down to find the *startup\_Cortex-R52* project. Click *Finish* to select the project.





Right-click on the project folder and open its priorities.

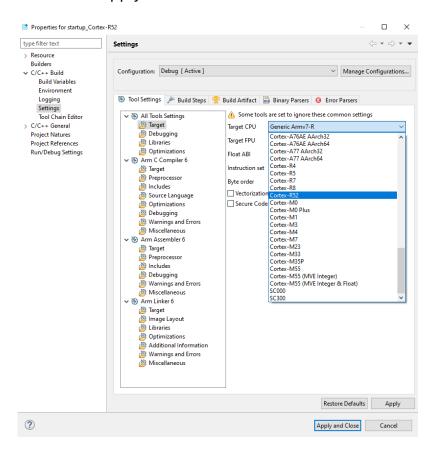


On the left settings select C/C++ Build  $\rightarrow$  Settings to change the target CPU to the one used on the project.

To do so, click on "All Tools Settings → Target and change the Target CPU\* to the

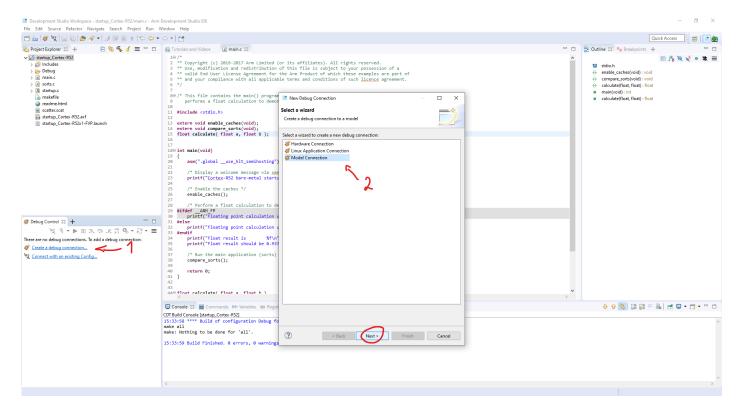
#### Cortex-R52.

Then click Apply and Close.

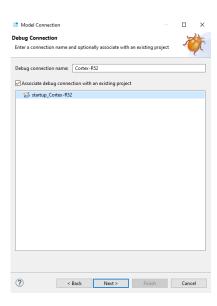


Now, to create the connection to the CPU, select the *Create a debug connection*... under the Debug control (1).

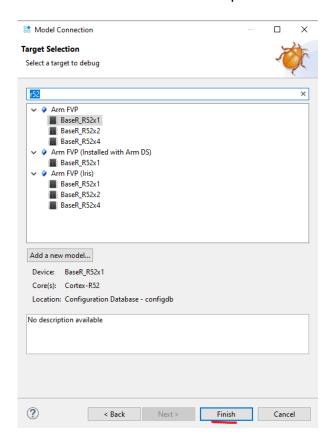
Then select the Model Connection (2) and click Next



Associate the debug connection with the existing project and choose a name for this connection

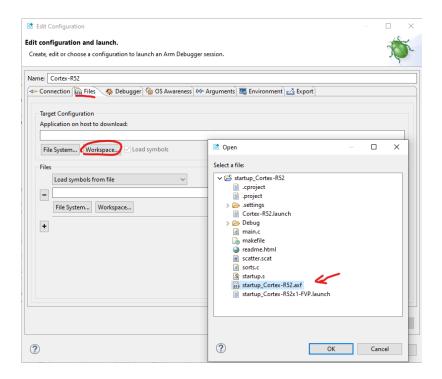


Search for the Cortex-R52 cpu and select it

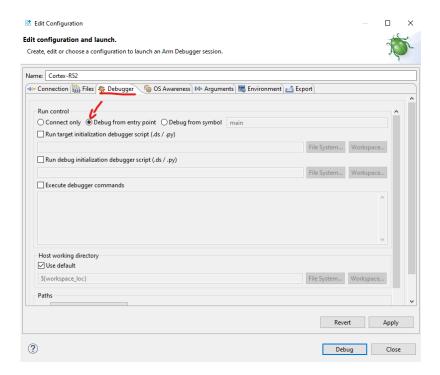


The window to configure the connection should appear.

On the *Files* tab select the *Workspace* button under the *Target Configuration*. Select the [...].axf file from the Debug folder of the project



On the *Debugger* tab select the *Debug from entry point* option. Apply the changes and click *Debug*.



With the connection configured, click the plug icon to start a debug session.

Info: FVP\_BaseR\_Cortex\_R52x1: CADI Debug Server started for ARM Models...

cadi server is reported on port 7000

Cortex-R52 connected (Arm FVP - BaseR\_R52x1)

Status: connected