# How to install the tools for DB1 on Mac computer

You may run the tools on a computer running one of these operating systems:

Linux (LIN), Windows (WIN), MacOS (MAC)

If you are having trouble installing the tools, try these troubleshooting steps:

* Update the operating system.
* Disable your antivirus software while installing the DB1 tools and reenable it right after that.
* Disable you firewall or set it up in an interactive mode so that you can see when the tools are trying to establish new connections. Reenable the firewall after the DB1 tools are installed.

The tools are installed in a Docker container, which you can think of as a virtual computer running on top of your operating system. The software inside the virtual computer is based on the Ubuntu distribution of Linux and to be able to run your computer should provide it with a Linux-like environment. This is provided out of the box for Linux and MacOS, but it might need to be configured if you are running Windows.

**Installation instructions:**

Open the folder where you’ve unzipped the db1tools, go to the Mac directory. In there go to the bar in the bottom that shows the path then right click on the Mac directory and then from the menu select “Open in Terminal” as shown in Figure 1. This will open the terminal window where we can execute scripts. The first script that we need to execute the file called **mac\_installation\_step1.sh** to start the installation of the prerequisites that we have for our tools. To execute it you need to type “./mac\_installation\_step1.sh” (without the quotes) in the terminal window and then press enter. Follow the instructions… Type your user password when requested. If you have a yes/no (y/n) question, just choose yes.

A screenshot of a computer

Description automatically generated

Figure 1 Starting the Terminal in the Mac folder

The prerequisites are Docker Desktop and Python (with a version at least 3.10).

If for some reason you cannot install Docker Desktop automatically with the installation script from step 1 then you can also install it manually by yourself by downloading it from this website: <https://www.docker.com/products/docker-desktop/> Make sure to install the correct version for your Mac. If you have an ARM chip (M1, M2, M3…) then you should install the Apple Chip version. If you have an older Intel Mac, then you should install the Intel Chip Version. Follow the instructions.

After you are done with the first installation script, and you have the docker desktop running then you can install the DB1 tools by running the script **./mac\_installation\_step2.sh** in the same terminal window where you have been running the script from step 1.

At the end of the installation, you’ll get the message that the installation is done.

**Running the tools**

You get 3 icons on your desktop that you can use to run the tools (you can copy them to the Applications directory if you prefer):

A computer chip with text

Description automatically generated Is used to start the DB1 tools

A red circle with black text

Description automatically generated Is used to erase the Huzzah board to factory defaults

A blue circular arrow with black text

Description automatically generatedThis program first erases the Huzzah board to factory defaults and then it uploads the firmware than allows us to run MicroPython on the board.