

Installation

Get ESP-IDF

To build applications for the ESP32, you need the ESP-IDF software libraries provided by Espressif. Consult [ESP-IDF Versions](#) for information about which ESP-IDF version to use in a given situation. To get ESP-IDF, navigate to your installation directory and clone the repository with git clone, following instructions:

```
cd ~/development/esp32
This will clone the Master Branch
git clone --recursive https://github.com/espressif/esp-idf.git

This will clone a stable release. Assuming that 4.0 is the latest stable
release
git clone -b v4.0 --recursive https://github.com/espressif/esp-idf.git
```

ESP-IDF will be downloaded into ~/esp/development/esp32/esp-idf.

Set up the tools

Aside from the ESP-IDF, you also need to install the tools used by ESP-IDF, such as the compiler, debugger, Python packages, etc. The scripts below install the compilation tools required by ESP-IDF inside the user home directory: **`$HOME/.espressif`** on Linux. If you wish to install the tools into a different directory, set the environment variable **`IDF_TOOLS_PATH`** before running the installation scripts. Make sure that your user account has sufficient permissions to read and write this path. If changing the `IDF_TOOLS_PATH`, make sure it is set to the same value every time the Install script (`install.sh`) and an Export script (`export.sh`) are executed.

```
cd ~/development/esp32/esp-idf
./install.sh
```

Set up the environment variables

The installed tools are not yet added to the `PATH` environment variable. To make the tools usable from the command line, some environment variables must be set. ESP-IDF provides another script which does that. In the terminal where you are going to use ESP-IDF, run:

```
. $HOME/esp/esp-idf/export.sh
```

Note the space between the leading dot and the path!

You can also automate this step, making ESP-IDF tools available in every terminal, by adding this line to your `.profile` or `.bash_profile` script.

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