

Arduino IDE con IoT: Escaneo Wifi

Desde [https://github.com/espressif/arduino-](https://github.com/espressif/arduino-esp32/blob/master/libraries/WiFi/examples/WiFiScan/WiFiScan.ino)

[esp32/blob/master/libraries/WiFi/examples/WiFiScan/WiFiScan.ino](https://github.com/espressif/arduino-esp32/blob/master/libraries/WiFi/examples/WiFiScan/WiFiScan.ino) podemos encontrar este programa para escanear las redes wifi desde nuestro ESP32 Arduino

<https://app.arduino.cc/sketches/54b6f875-2961-4ec5-8a48-608d9dde5feb?view-mode=preview>

<https://app.arduino.cc/sketches/54b6f875-2961-4ec5-8a48-608d9dde5feb?view-mode=embed>

y da este error NO DEU dfu-util: No DFU capable USB device available Failed uploading: uploading error: exist status 74 ¿Por qué?

No has preparado convenientemente el ALVIK haz <https://libros.catedu.es/books/arduino-alvik/page/preparar-alvik-para-arduino-ide-modo-bootloader>

Instalando la librería Wifi.h

Te dará un error de compilación pues no tiene esta librería. Puedes descargar la versión última desde <https://www.arduino.cc/reference/en/libraries/wifi/>

[FUNCTIONS](#)[VARIABLES](#)[STRUCTURE](#)[LIBRARIES](#)[IOT CLOUD API](#)[GLOSSARY](#)

CATEDU

WiFi

Communication

Enables network connection (local and Internet) using the Arduino WiFi shield. With this library you can instantiate Servers, Clients and send/receive UDP packets through WiFi. The shield can connect either to open or encrypted networks (WEP, W. The IP address can be assigned statically or through a DHCP. The library can also m. DNS.

[Go to repository](#)

Note: this library was retired and is no longer maintained.

Compatibility

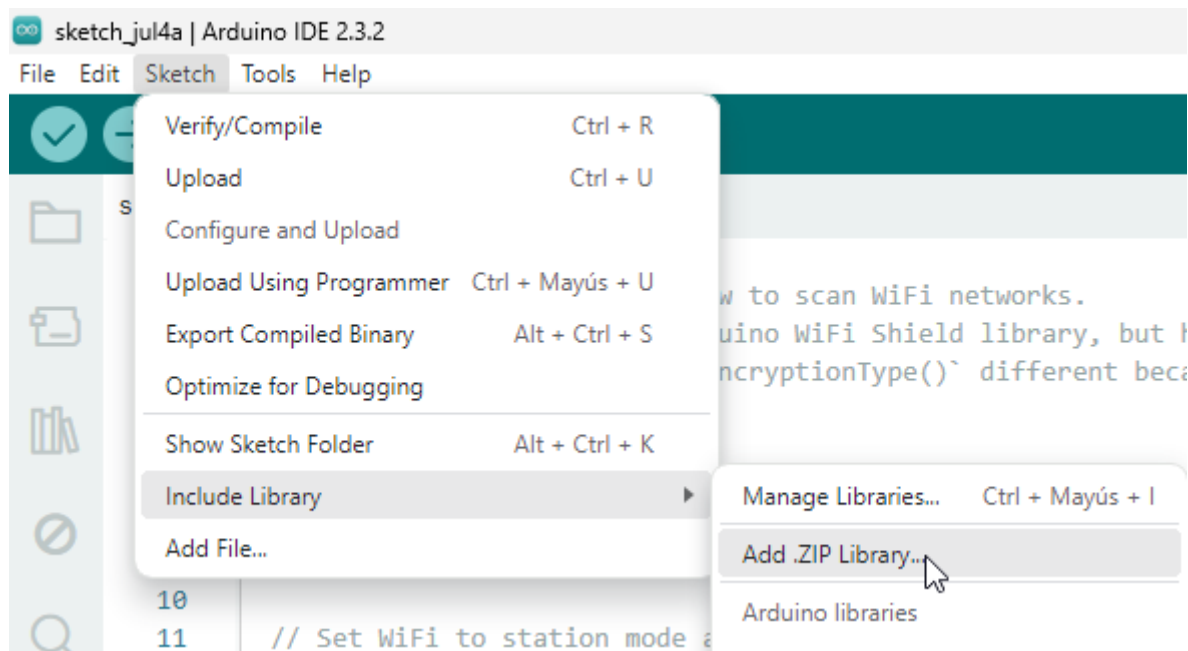
This library is compatible with **all** architectures so you should be able to use it on al Arduino boards.

Releases

To use this library, open the [Library Manager](#) in the Arduino IDE and install it from t

- [1.2.7 \(latest\)](#)
- [1.2.6](#)
- [1.2.5](#)

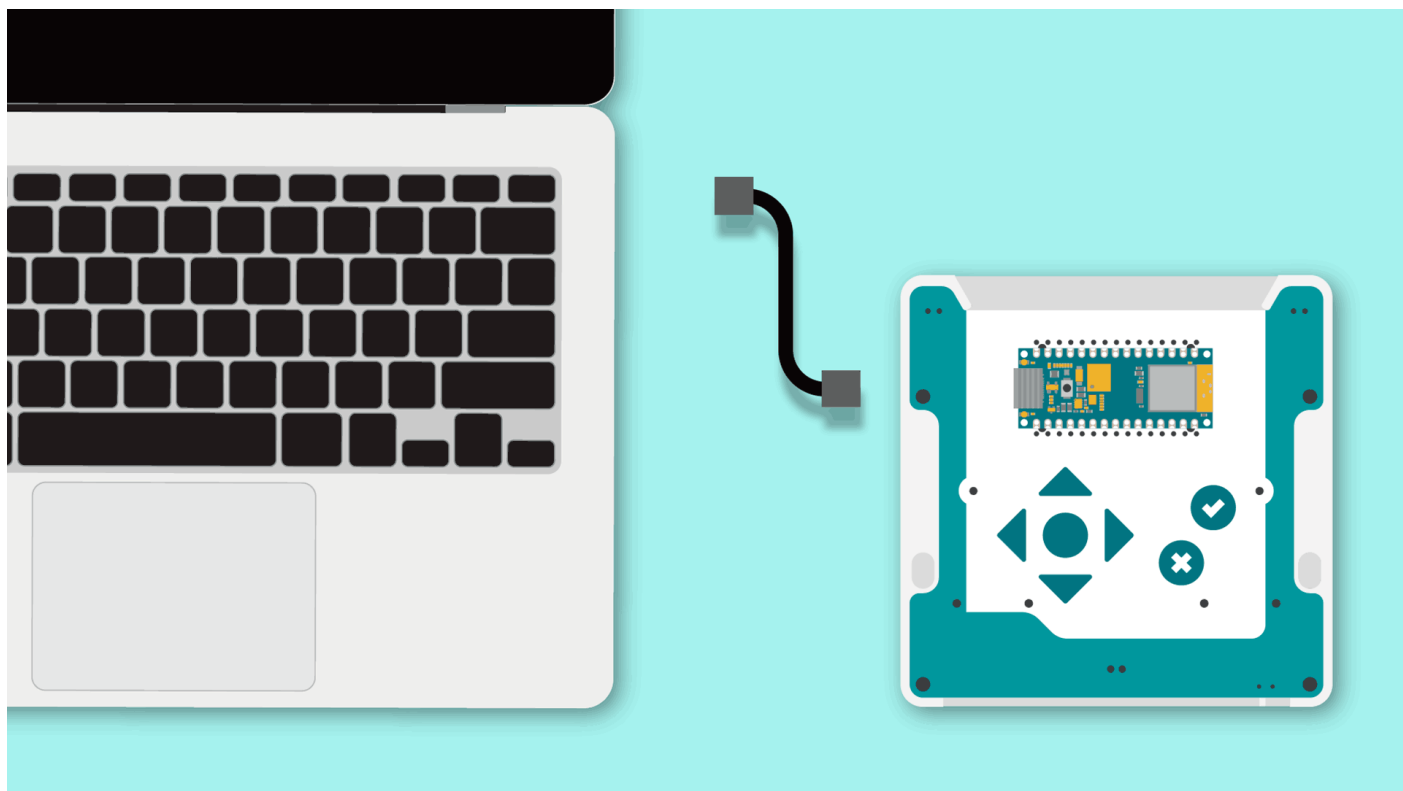
Una vez descargada (un fichero ZIP no lo descomprimas) en el editor Arduino IDE se instala desde este menú



Seleccionamos el fichero Zip que has descargado y ya tenemos la librería instalada

Compilamos

Antes de compilar CONECTAMOS NUESTRO ESP32

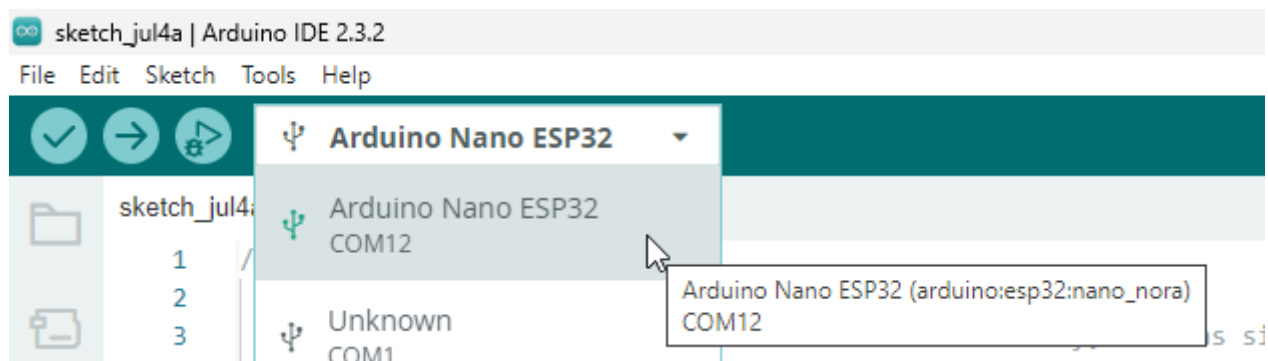


Licencia CC-BY-NC-SA origen <https://courses.arduino.cc/explore-robotics->

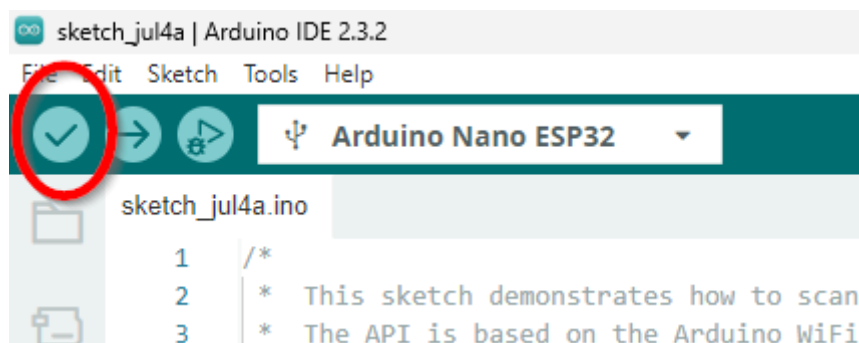
[micropython/lessons/getting-started/](#)

No hace falta encender el robot Arduino Alvik

Y seleccionamos la placa que ha reconocido

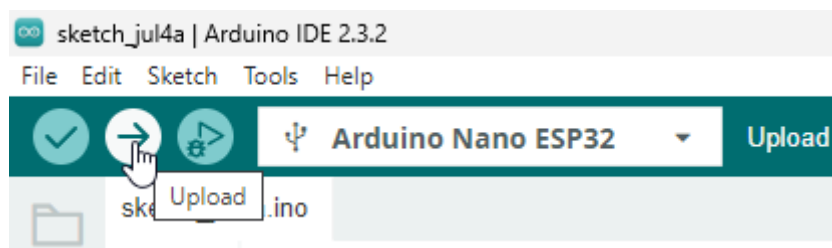


Y ya se puede compilar !!! no tiene que dar ningún fallo



Subirlo al ESP32

Pues si lo intentas subir





y da este error **NO DEU dfu-util: No DFU capable USB device available Failed uploading: uploading error: exist status 74 ¿Por qué?**

Lee <https://libros.catedu.es/books/arduino-alvik/page/modo-bootloader>

Resultado

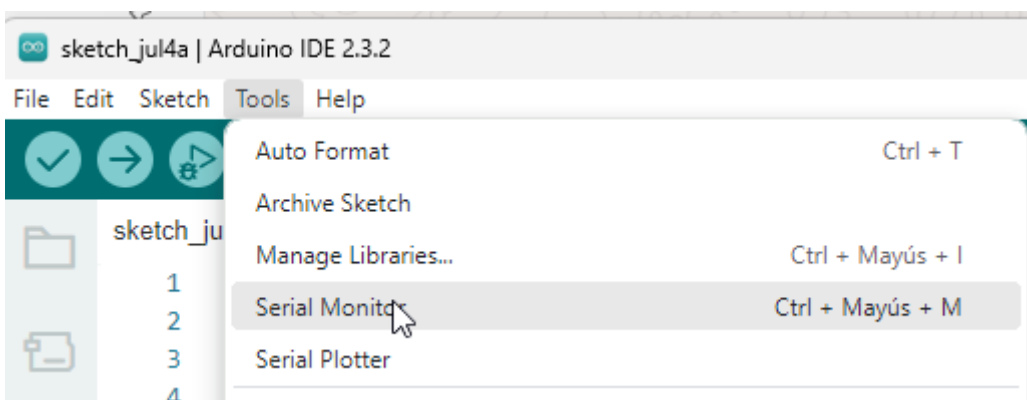
Le damos a subir, y en la ventana de Output da como correcto

```

sketch_jul4a | Arduino IDE 2.3.2
File Edit Sketch Tools Help
Arduino Nano ESP32
sketch_jul4a.ino
1  /*
2  * This sketch demonstrates how to scan WiFi networks.
3  * The API is based on the Arduino WiFi Shield library, but has significant changes as newer WiFi functions are supported.
4  * E.g. the return value of `encryptionType()` different because more modern encryption is supported.
5  */
6  #include "WiFi.h"
7
8  void setup() {
9    Serial.begin(115200);
10
11  Download [=====] 72% 495616 bytes
12  Download [=====] 76% 524288 bytes
13  Download [=====] 79% 544768 bytes
14  Download [=====] 80% 548864 bytes
15  Download [=====] 84% 577536 bytes
16  Download [=====] 88% 606208 bytes
17  Download [=====] 92% 630784 bytes
18  Download [=====] 96% 659456 bytes
19  Download [=====] 100% 681024 bytes
20  Download done.
21  DFU state(7) = dfuMANIFEST, status(0) = No error condition is present
22  DFU state(2) = dfuIDLE, status(0) = No error condition is present
23  Done!
Ln 12, Col 8 Arduino Nano ESP32 on COM12

```


Y si nos vamos a la ventana del monitor serie



No nos sale nada !!! le das al botón de reset y ya sale :

sketch_jul4a | Arduino IDE 2.3.2

File Edit Sketch Tools Help


 Arduino Nano ESP32

```

1  /*
2  * This sketch demonstrates how to scan WiFi networks.
3  * The API is based on the Arduino WiFi Shield library, but has significant changes as new
4  * E.g. the return value of `encryptionType()` different because more modern encryption is
5  */
6  #include "WiFi.h"
7
8  void setup() {
9      Serial.begin(115200);

```



Output Serial Monitor x

Message (Enter to send message to 'Arduino Nano ESP32' on 'COM12')

```

Scan done
13 networks found
Nr | SSID                                | RSSI | CH | Encryption
1  | DIRECT-gd-EPSON-ET-4800 Series      | -59  | 11 | WPA2
2  | catedu                             | -69  | 6  | WPA+WPA2
3  | INVITADOS_ARAGON                   | -75  | 1  | open
4  | COLABORADORES_ARAGON               | -76  | 1  | WPA2-EAP
5  | EMBOU_76B6                         | -86  | 5  | WPA+WPA2
6  | COLABORADORES_ARAGON               | -87  | 6  | WPA2-EAP
7  | MIWIFI_F6Yh                        | -88  | 6  | WPA2
8  | INVITADOS_ARAGON                   | -88  | 6  | open
9  | COLABORADORES_ARAGON               | -88  | 11 | WPA2-EAP

```

Dar previamente
al botón de Reset

¿Puedo ahora ejecutar un programa en MicroPython?

No, tal y como dice aquí <https://libros.catedu.es/books/arduino-alvik/page/instalar-micropython> tienes que instalar el interpretador/compilador de Micropython dentro del ESP32, sino Arduino Lab for Micropython no se podrá conectar porque no lo encontrará.

Revision #17

Created 4 July 2024 11:29:49 by Javier Quintana



Updated 28 March 2025 11:13:45 by Javier Quintana