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LEARNING > GETTING STARTED (/LEARNING/GETTING-STARTED)



BOARDS (/LEARNING/GETTING-STARTED/CONTENT/BOARDS-GETTING-STARTED) > START WITH ARDUINO UNO WIFI

Start with Arduino UNO WiFi

(http://<http://arduino.org/learning/getting-started/getting-started-with-arduino-uno-wifi>)
/share/<https://www.arduino.org/learning/getting-started/getting-started-with-arduino-uno-wifi>&
%2Fwww.arduino.org/learning/getting-started/getting-started-with-arduino-uno-wifi&
started%2Fgetting-started-with-arduino-uno-wifi&
uno-wifi&
via=ArduinoOrg=Start%20with%20Arduino%20UNO%20WiFi)

GETTING STARTED

FIRST SKETCH

WEB PANEL

The Arduino UNO WiFi has a Web panel that it can be reached in different ways:

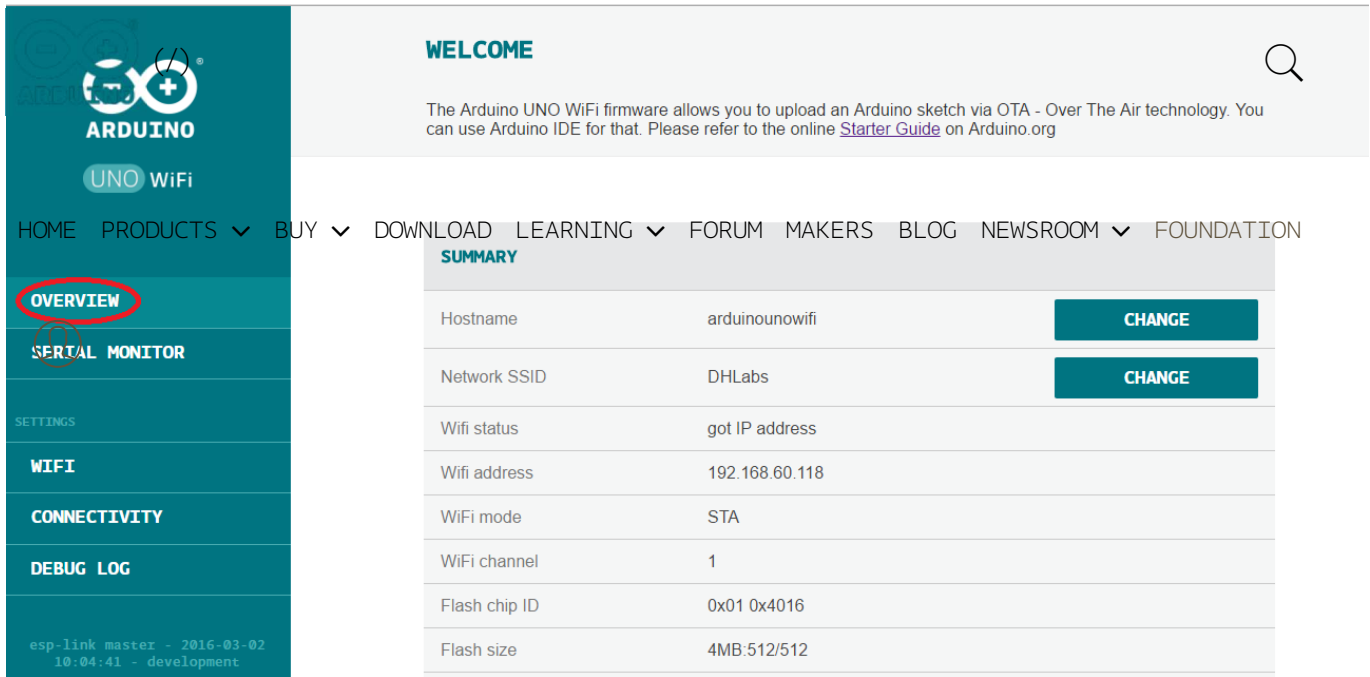
- If the board isn't been configured yet, you can access inserting in the browser this link: <http://192.168.240.1/> (<http://192.168.240.1/>)

In this case look the getting started guide to configure it.

- If the board is been correctly configured then you can insert the ip address (xxx.xxx.xxx.xxx) or the hostname(hostname.local/) from browser.

The Web panel has a simple menu that it is formed from five items: OVERVIEW, SERIAL MONITOR, WIFI,CONNECTIVITY and DEBUG LOG.

The Home page of the Web Panel corresponds to OVERVIEW menu, as shown in the below image:

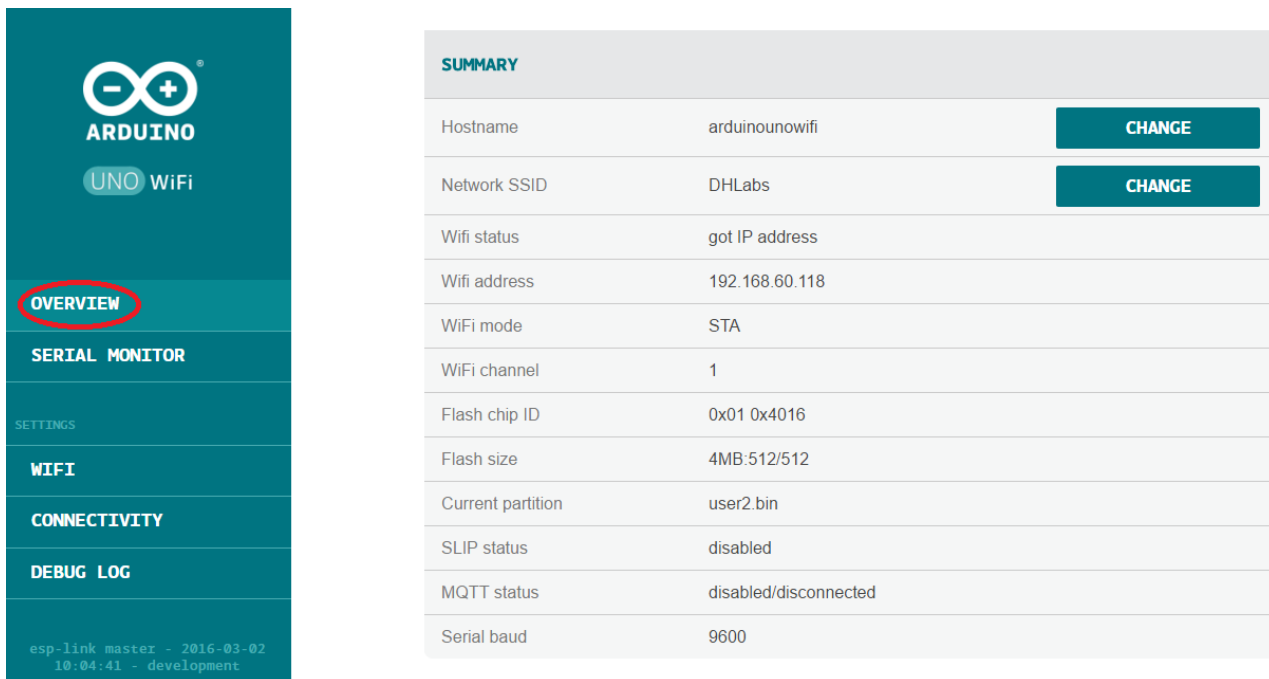


The screenshot shows the Arduino UNO WiFi web interface. The left sidebar contains navigation links: HOME, PRODUCTS, BUY, DOWNLOAD, LEARNING, FORUM, MAKERS, BLOG, NEWSROOM, and FOUNDATION. Below these are links for OVERVIEW (highlighted with a red circle), SERIAL MONITOR, SETTINGS, WIFI, CONNECTIVITY, and DEBUG LOG. The main content area has a 'WELCOME' header and a search icon. Below the header is a 'SUMMARY' table with the following data:

SUMMARY		
Hostname	arduinounowifi	CHANGE
Network SSID	DHLabs	CHANGE
Wifi status	got IP address	
Wifi address	192.168.60.118	
WiFi mode	STA	
WiFi channel	1	
Flash chip ID	0x01 0x4016	
Flash size	4MB:512/512	

(/images/tutorials/overview-1.png)

In the Overview are shown all the informations about the configuration board:
the hostname, the network SSID, Wifi address, Wifi mode,...

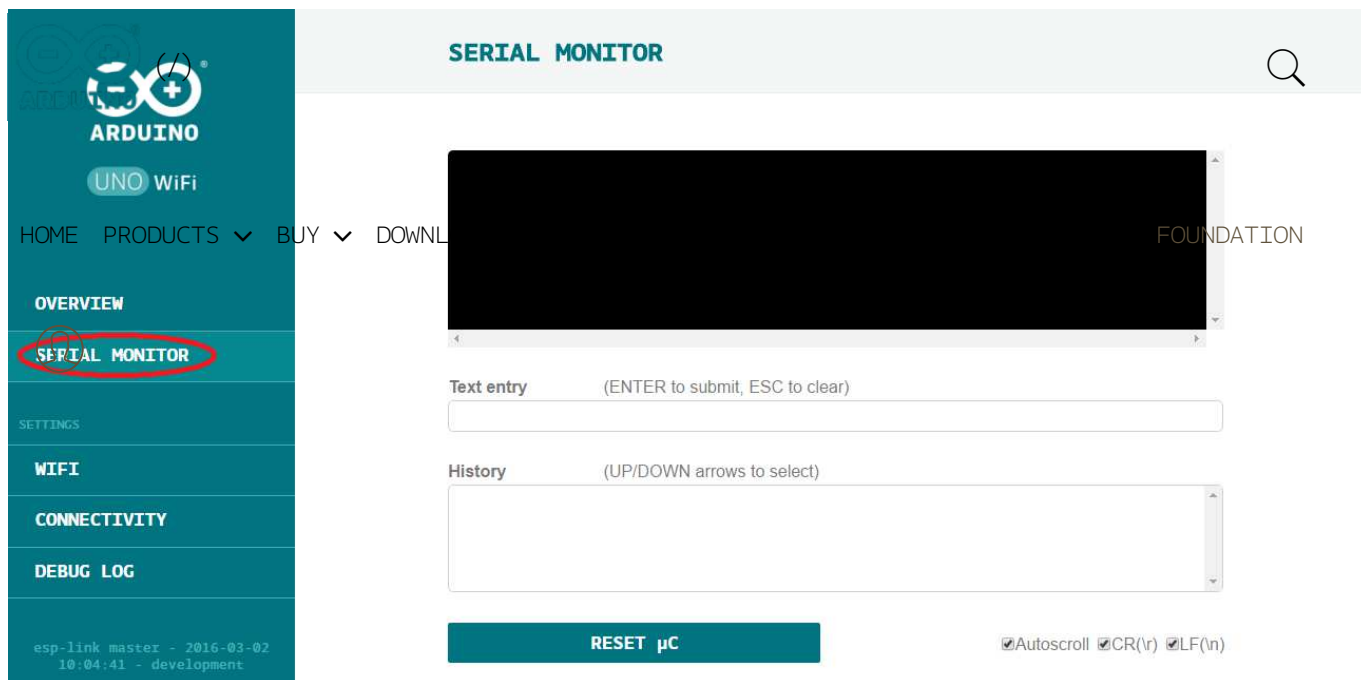


The screenshot shows the Arduino UNO WiFi web interface. The left sidebar contains navigation links: HOME, PRODUCTS, BUY, DOWNLOAD, LEARNING, FORUM, MAKERS, BLOG, NEWSROOM, and FOUNDATION. Below these are links for OVERVIEW (highlighted with a red circle), SERIAL MONITOR, SETTINGS, WIFI, CONNECTIVITY, and DEBUG LOG. The main content area has a 'SUMMARY' table with the following data:

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Hostname	arduinounowifi	CHANGE
Network SSID	DHLabs	CHANGE
Wifi status	got IP address	
Wifi address	192.168.60.118	
WiFi mode	STA	
WiFi channel	1	
Flash chip ID	0x01 0x4016	
Flash size	4MB:512/512	
Current partition	user2.bin	
SLIP status	disabled	
MQTT status	disabled/disconnected	
Serial baud	9600	

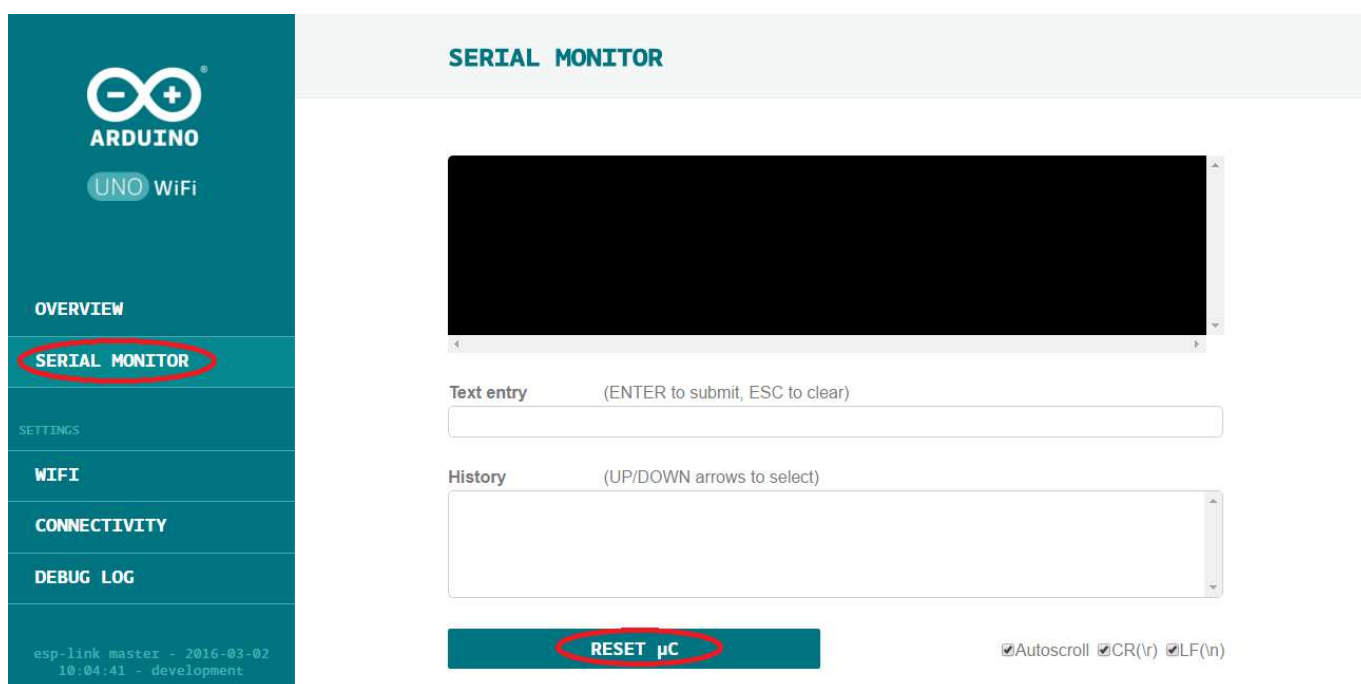
(/images/tutorials/overview-2.png)

Clicking on SERIAL MONITOR appears a serial monitor useful to display the results when you upload a sketch.



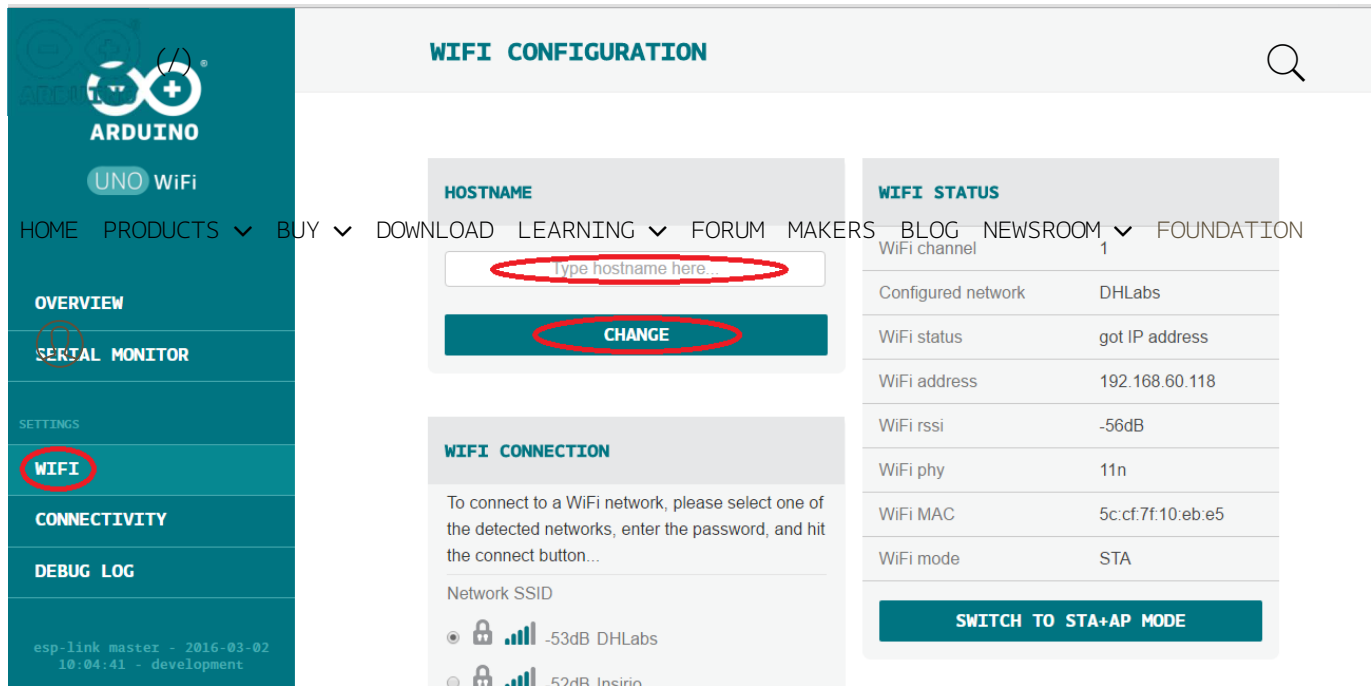
(/images/tutorials/serial-monitor1.png)

Furthermore in this section it is possible to reset the microcontroller clicking on RESET uC button.



(/images/tutorials/serial-monitor-2.png)

Instead selecting from left menu the WIFI section, you can change the hostname simply typing the new hostname in the dedicated bar and after to click on CHANGE button, as shown in the below image:

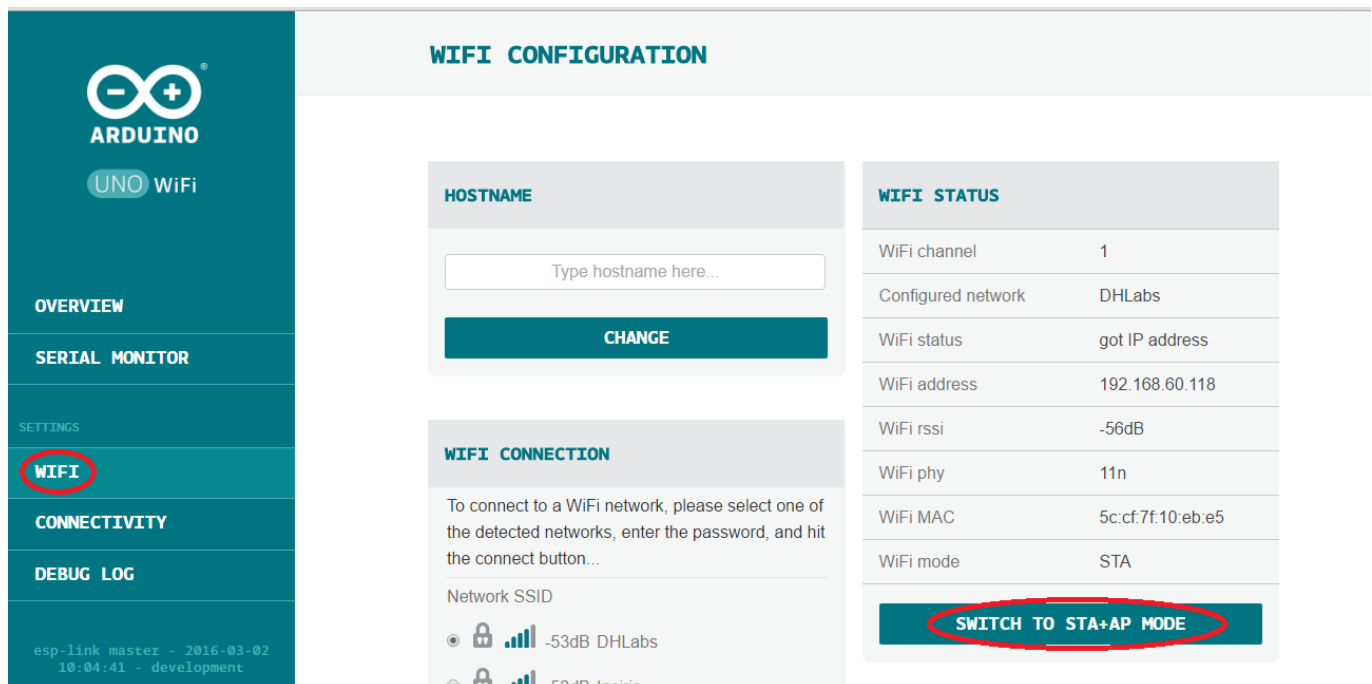


The screenshot shows the Arduino Uno WiFi configuration web interface. The left sidebar contains the Arduino logo, 'UNO WiFi', and navigation links: HOME, PRODUCTS, BUY, DOWNLOAD, LEARNING, FORUM, MAKERS, BLOG, NEWSROOM, and FOUNDATION. Below these are sections for OVERVIEW, SERIAL MONITOR, and SETTINGS. The 'WIFI' option under SETTINGS is circled in red. The main content area is titled 'WIFI CONFIGURATION' and includes a search icon. It features three main sections: 'HOSTNAME' with a text input field (containing 'Type hostname here.') and a 'CHANGE' button (both circled in red); 'WIFI CONNECTION' with instructions and a list of detected networks; and 'WIFI STATUS' with a table of current settings and a 'SWITCH TO STA+AP MODE' button.

Parameter	Value
WiFi channel	1
Configured network	DHLabs
WiFi status	got IP address
WiFi address	192.168.60.118
WiFi rssi	-56dB
WiFi phy	11n
WiFi MAC	5c:cf:7f:10:eb:e5
WiFi mode	STA

(/images/tutorials/wif2.png)

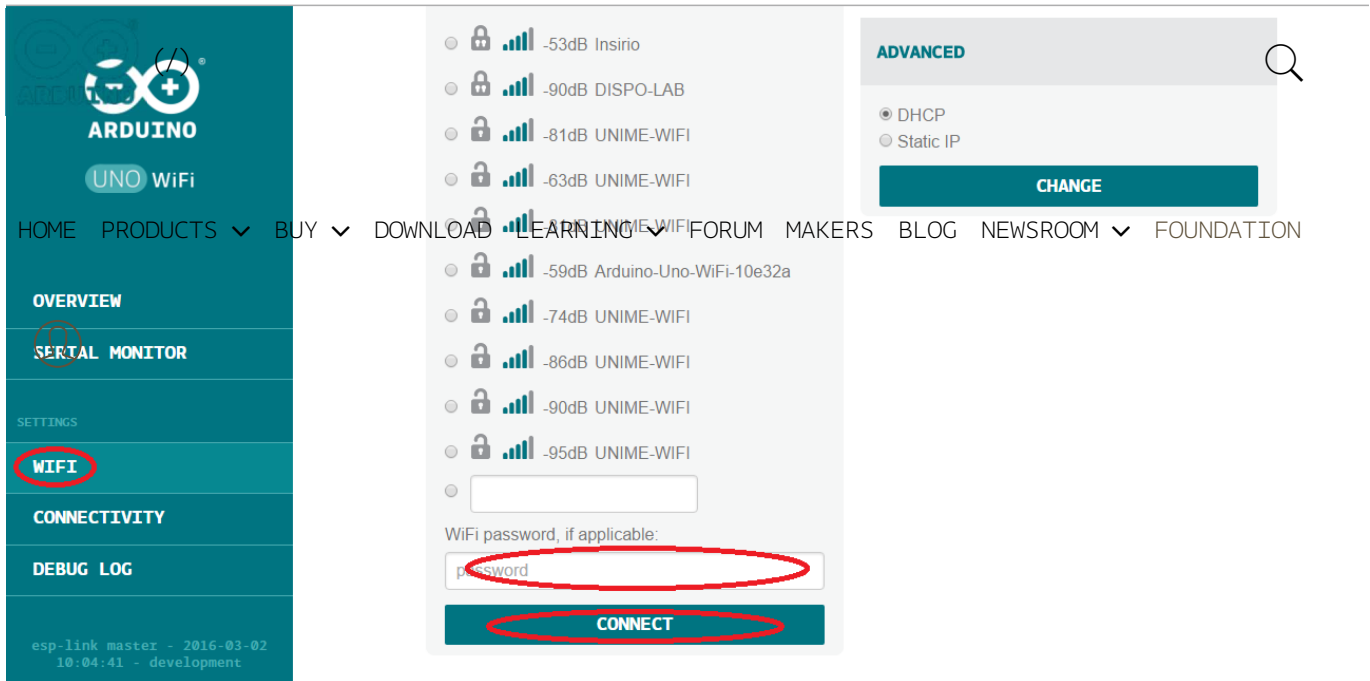
It is possible also to switch to STA MODE or STA+AP MODE clicking the specific button, but keep in mind that it is advised to switch only in STA MODE because so the board will be visible on the Arduino IDE : furthermore, you will be able to protect it from possible attacks, since it will no longer be visible as open network.



This screenshot shows the same Arduino Uno WiFi configuration interface as the previous one, but with the 'SWITCH TO STA+AP MODE' button in the 'WIFI STATUS' section circled in red. The 'WIFI' menu item in the sidebar remains circled. The 'CHANGE' button under the 'HOSTNAME' section is no longer circled.

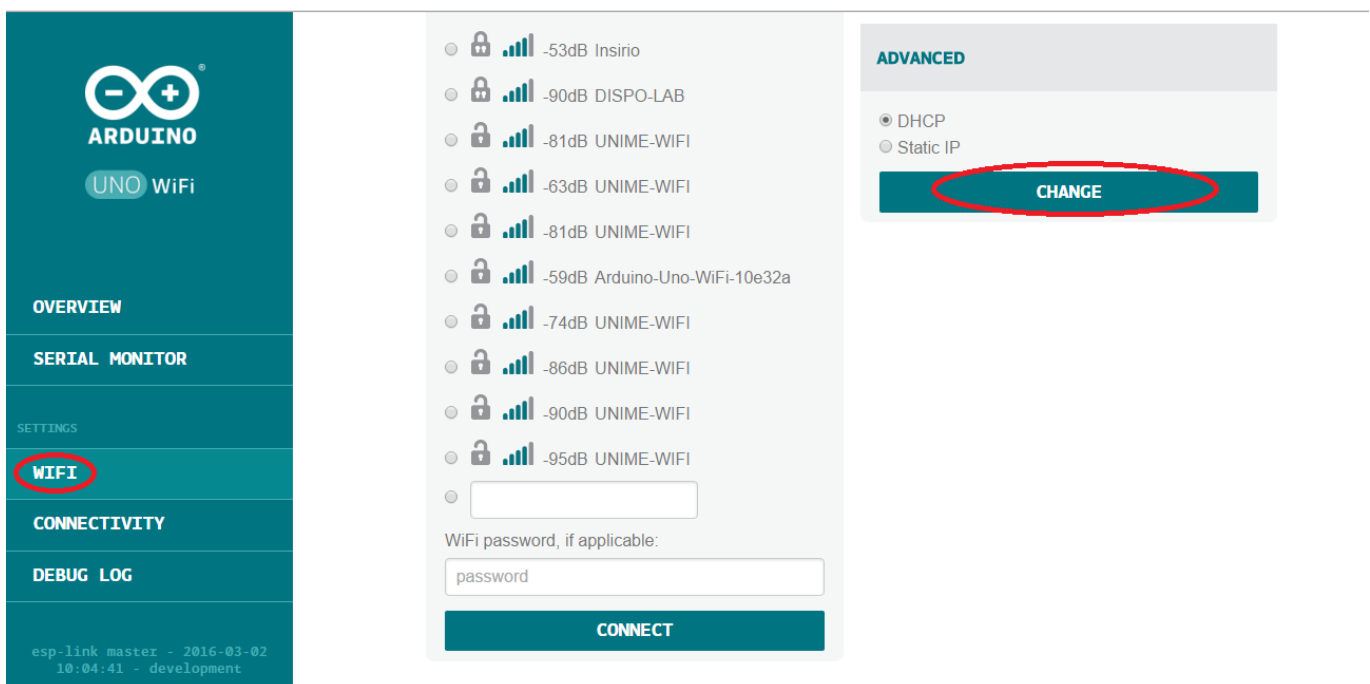
(/images/tutorials/wif3.png)

It is possible to connect the board to a network selecting it, inserting the correct password and clicking on CONNECT button.



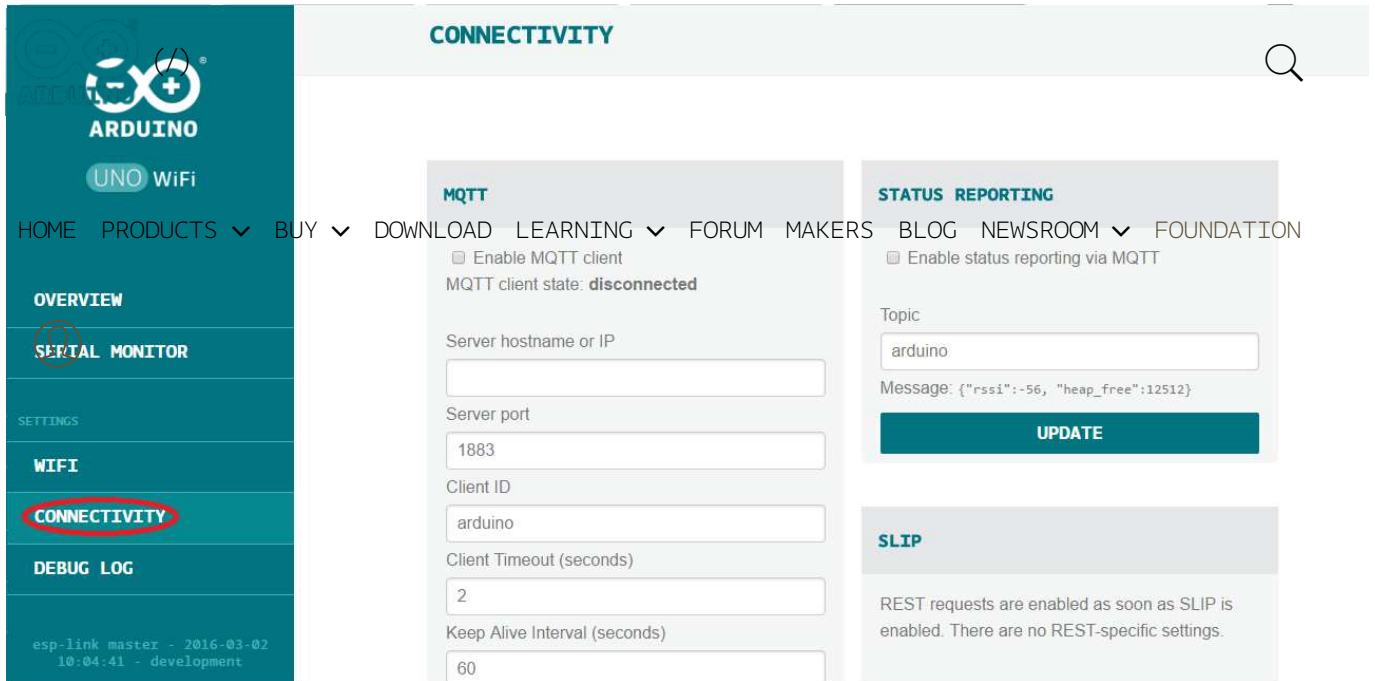
(/images/tutorials/wifi4.png)

In this section you can also choose if to use the DHCP or the Static IP, as shown in the picture:



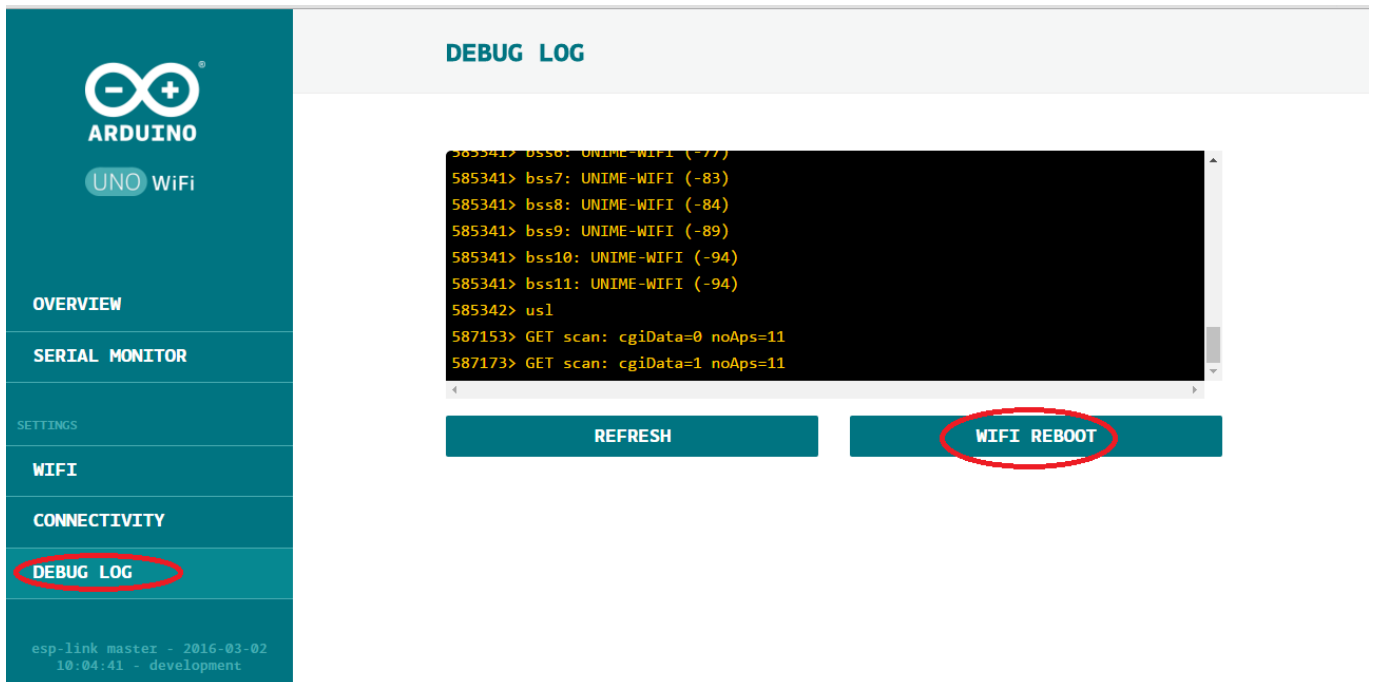
(/images/tutorials/wifi5.png)

In the CONNECTIVITY section you can enable the connection services for example the client MQTT an SLIP:



(/images/tutorials/connectivity.png)

Finally in the DEBUG LOG it is shown the debug log and it is possible to reboot the WiFi clicking the W REBOOT button:



(/images/tutorials/Debug.png)





GETTING STARTED



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FIRST STEPS (/learning/getting-started)

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START WITH ARDUINO UNO

(/learning/getting-started/getting-started-arduino-uno)

START WITH ARDUINO YUN

(/learning/getting-started/getting-started-with-arduino-yun)

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(/learning/getting-started/getting-started-with-arduino-nano)

START WITH ARDUINO TIAN

(/learning/getting-started/getting-started-with-arduino-tian)

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(/learning/getting-started/getting-started-with-arduino-gsm-shield-2)

(/)



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