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portal.productboard.com

**Blynk Roadmap**

Help us build the thing you want!

## How can I save an auth token input with Wi-Fi Manager?

Solved



Paradox

1 Jan '18

I want to be able to configure the auth token, SSID and Password with WiFi manager so they can be changed without the need for editing the code.

I have been able to set the auth token with WiFi Manager but it's not saved. Every time the board (I'm using a WeMos D1 Mini) is reset the auth token needs to be reconfigured.

I've been trying to figure out how to store the auth token in EEPROM so it can be loaded from memory when the board is reset but I've had nothing but failures.

Any help is much appreciated, thanks!

```
#include <WiFiManager.h>
#define BLYNK_PRINT Serial
#include <EEPROM.h>
#include <DNSServer.h>
#include <ESP8266WebServer.h>
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
char blynk_token[33];

void setup() {
  Serial.begin(115200);
  WiFiManagerParameter custom_blynk_token("Blynk", "blynk token", blynk_token, 33);
  WiFiManager wif;
  wif.addParameter(&custom_blynk_token);
  wif.autoConnect("LightCube");
  Blynk.config(custom_blynk_token.getValue());
}

void loop() {
  Blynk.run();
}
```



WiFi Manager For Blynk Local server

created	last reply	18	4.3k	7	7	10				
Jan '18	Dec '18	replies	views	users	likes	links				



Toro\_Blanco Regular

Jan '18

Try searching this forum. What you are looking for is out there ( I know because I have posted such information ).



Paradox

Jan '18

I Have spent hours searching this forum and others, I have found some info but none that was very helpful.

I even found example code more than once but it was messy and wouldn't compile.  
That could be my fault, I have some programming knowledge but I'm no expert.  
If you can point me to a helpful thread that would be great.



Paradox

Jan '18

This is the most relevant thing I've found so far.  
It's the example for saving custom parameters provided in the Wi-Fi Manager documentation.  
However I've tried many times but can't get it to compile, I always get "Error compiling for board WeMos D1 mini."

github.com 96

**tzapu/WiFiManager/blob/master/examples/AutoConnectWithFSPParameters/AutoConnectWithFSPParameters.ino** 96

```
#include <FS.h> //this needs to be first, or it all crashes and burns...

#include <ESP8266WiFi.h> //https://github.com/esp8266/Arduino

//needed for library
#include <DNSServer.h>
#include <ESP8266WebServer.h>
#include <WiFiManager.h> //https://github.com/tzapu/WiFiManager

#include <ArduinoJson.h> //https://github.com/bblanchon/ArduinoJson

//define your default values here, if there are different values in config.json,
they are overwritten.
char mqtt_server[40];
char mqtt_port[6] = "8080";
char blynk_token[34] = "YOUR_BLYNK_TOKEN";

//flag for saving data
bool shouldSaveConfig = false;

//callback notifying us of the need to save config
```

This file has been truncated. show original 96



Costas Regular

Jan '18

@paradox set your compiler to show verbose messages and paste the output here.



Paradox

1 Jan '18

Costas:

@paradox set your compiler to show verbose messages and paste the output here.

Here you go

```
"C:\Program Files (x86)\Arduino\arduino-builder -dump-prefs -logger=machine -
hardware C:\Program Files (x86)\Arduino\hardware -hardware
C:\Users\John\AppData\Local\Arduino15\packages -tools C:\Program Files
(x86)\Arduino\tools-builder -tools C:\Program Files (x86)\Arduino\hardware\tools\avr -
tools C:\Users\John\AppData\Local\Arduino15\packages -built-in-libraries C:\Program
Files (x86)\Arduino\libraries -libraries C:\Users\John\Documents\Arduino\libraries -
fqbn=esp8266:esp8266:d1_mini:CpuFrequency=80,UploadTool=esptool,UploadSpeed=921600,FlashS
-ide-version=10802 -build-path C:\Users\John\AppData\Local\Temp\arduino_build_348407 -
warnings=none -build-cache C:\Users\John\AppData\Local\Temp\arduino_cache_246309 -
prefs=build.warn_data_percentage=75 -
prefs=runtime.tools.mkspiffs.path=C:\Users\John\AppData\Local\Arduino15\packages\esp8266\
-
prefs=runtime.tools.esptool.path=C:\Users\John\AppData\Local\Arduino15\packages\esp8266\
-prefs=runtime.tools.txn106-elf-
gcc.path=C:\Users\John\AppData\Local\Arduino15\packages\esp8266\tools\txn106-elf-
gcc\1.20.0-26-gb404fb9-2 -verbose
C:\Users\John\Documents\Arduino\Blynk_Save_Custom_peramiters\Blynk_Save_Custom_peramiters

C:\Program Files (x86)\Arduino\arduino-builder -compile -logger=machine -hardware
C:\Program Files (x86)\Arduino\hardware -hardware
C:\Users\John\AppData\Local\Arduino15\packages -tools C:\Program Files
(x86)\Arduino\tools-builder -tools C:\Program Files (x86)\Arduino\hardware\tools\avr -
tools C:\Users\John\AppData\Local\Arduino15\packages -built-in-libraries C:\Program
Files (x86)\Arduino\libraries -libraries C:\Users\John\Documents\Arduino\libraries -
fqbn=esp8266:esp8266:d1_mini:CpuFrequency=80,UploadTool=esptool,UploadSpeed=921600,FlashS
-ide-version=10802 -build-path C:\Users\John\AppData\Local\Temp\arduino_build_348407 -
warnings=none -build-cache C:\Users\John\AppData\Local\Temp\arduino_cache_246309 -
prefs=build.warn_data_percentage=75 -
prefs=runtime.tools.mkspiffs.path=C:\Users\John\AppData\Local\Arduino15\packages\esp8266\
-
```



Paradox

1 Jan '18

```
Using previously compiled file:
C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\debug.cpp.o
Using previously compiled file:
C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\pgmspace.cpp.o
Using previously compiled file:
C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\spiffs_api.cpp.o
Using previously compiled file:
C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\spiffs_hal.cpp.o
"C:\Users\John\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\1.20.0-26-gb404fb9-2\bin\xtensa-lx106-elf-ar" cru
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\arduino.ar"
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\cont.S.o"
"C:\Users\John\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\1.20.0-26-gb404fb9-2\bin\xtensa-lx106-elf-ar" cru
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\arduino.ar"
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\cont_util.c.o"
"C:\Users\John\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\1.20.0-26-gb404fb9-2\bin\xtensa-lx106-elf-ar" cru
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\arduino.ar"
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\core_esp8266_eboot_command.c.o"

"C:\Users\John\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\1.20.0-26-gb404fb9-2\bin\xtensa-lx106-elf-ar" cru
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\arduino.ar"
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\core_esp8266_flash_utils.c.o"

"C:\Users\John\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\1.20.0-26-gb404fb9-2\bin\xtensa-lx106-elf-ar" cru
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\arduino.ar"
"C:\Users\John\AppData\Local\Temp\arduino_build_348407\core\core_esp8266_i2s.c.o"
```



## How can I save an auth token input with Wi-Fi Manager?

Solved

Log In



Costas Regular

Jan '18

@Paradox looking at the compiler output I think this is your problem  
<https://github.com/esp8266/Arduino/issues/500> and it was fixed a long time ago.

Am I right in thinking you are using ESP8266 Arduino core 2.0?

You need to get rid of that. 2.4.0 is the latest official release but I would go with the master as it has additional bug fixes.

1 Reply

1 Heart



Toro\_Blanco Regular

Jan '18

I will post this here in hopes that it will help not only you, but future BLYNK users trying to use WIFIManager.

```
#include <FS.h> //this needs to be first, or it all crashes and burns...

#include <ESP8266WiFi.h> //https://github.com/esp8266/Arduino
#include <BlynkSimpleEsp8266.h> //needed for library
#include <DNSServer.h>
#include <ESP8266WebServer.h>
#include <WiFiManager.h> //https://github.com/tzapu/WiFiManager
#include <SimpleTimer.h>
#include <ArduinoJson.h> //https://github.com/bblanchon/ArduinoJson

#define BLYNK_PRINT Serial // Comment this out to disable prints and save space
// #define BLYNK_DEBUG

//define your default values here, if there are different values in config.json, they are overwritten.
//char mqtt_server[40];
//char mqtt_port[6] = "8080";
char blynk_token[34] = "YOUR_BLYNK_TOKEN";

//flag for saving data
bool shouldSaveConfig = false;

//callback notifying us of the need to save config
void saveConfigCallback () {
  Serial.println("Should save config");
  shouldSaveConfig = true;
}
```

If you will notice, all I did was comment out the sections that did not apply (mqtt\_server and mqtt\_port).

Also if you don't have all the right libraries installed it will not work. I will leave that part up to you.

5 Replies

4 Heart

Blynk + Wifimanager + DoubleResetDetector 12

Guidance on feeding Blynk token through wifimanager webpage 10

Jan 2018

8 / 19

Jan 2018

Dec 2018

- 🔗 I need a pretty simple example of tzapu wifimanager <sup>4</sup>
- 🔗 NoBlynkBlock by Costas - HELP <sup>3</sup>
- 🔗 Compilation fails or goes through based on which header file is included <sup>1</sup>
- 1 more



Paradox

Jan '18



Costas:



@Paradox looking at the compiler output I think this is your problem  
<https://github.com/esp8266/Arduino/issues/500> and it was fixed a long time ago.

Am I right in thinking you are using ESP8266 Arduino core 2.0?

You need to get rid of that. 2.4.0 is the latest official release but I would go with the master as it has additional bug fixes.

That did it!

Yes I was using 2.0 and after updating to version 2.4.0 it compiled and uploaded!

I'm using the code @Toro\_Blanco edited.

I've tested it and it's working great!

Thanks @Costas and @Toro\_Blanco !



5 MONTHS LATER



AbuJarrah



Toro\_Blanco

Jun '18

Thank you Code works successfully on nodemcu

There is a problem with esp-01 after the power is disconnected and back it starts to establish an access point  
(Do not keep contact information)



Paradox

Jun '18

I ran into that problem too. Update WiFi Manager, that should fix it. Good luck!



AbuJarrah

Jun '18

Can you upload the library version you are using with the code?

A week and I am trying to repair this in vain



Paradox

Jun '18

I'm using version 0.12.0 of WiFi manager. You should be able to install or update with the Arduino Library Manager. Here's the link for the WiFi manager Git Hub, (<https://github.com/tzapu/WiFiManager> <sup>38</sup>).

I hope that solves your problem! 😊



4 MONTHS LATER



petertmac



Toro\_Blanco

Oct '18

I spent many hours reading through this and other forums trying to understand this exact issue. I found this post and used your code. After solving a couple of syntax issues where I inserted it, it works.  
Thanks for posting.



9 DAYS LATER



Kaju



Toro\_Blanco

Oct '18

The Json library changed.  
This code work only with 5.13.2

ArduinoJson 23

### Migrating from version 5 to 6 23

This page explains how to upgrade code written for ArduinoJson 5 to use ArduinoJson 6



Likky\_Bilan



Toro\_Blanco

Nov '18

Thank you. This code ti's work for ESP826612F and all ESP.



2 MONTHS LATER



SPLIT THIS TOPIC DEC 19, '18

A post was split to a new topic: [How to configure my own blynk server?](#)



CLOSED DEC 19, '18

Reply

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Topic	Replies	Views	Activity
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Segmented Switch causing Blynk server connection loss <span>Solved</span> arduino	7	207	Mar 5
Help about program can't load complete <span>Solved</span>	48	203	Jul 27
A Continual last 14 day value accumulation - Circular Buffer <span>Solved</span>	8	176	Nov '20
How to Set the Color of an LED to an RGB Value <span>Solved</span>	5	59	Jul 12
Serial print blcoked by Blynk.begin <span>Solved</span> android	2	110	Nov '20
Redirecting and connecting/disconnecting messages <span>Solved</span>	3	76	Mar 3
Timer Input Widget not passing parameters from app to sketch on boot <span>Solved</span> esp32	5	78	May 1

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