

MuksOS Starter Kit Tutorials

- 1] WITH ROUTER
- 2] WITHOUT ROUTER

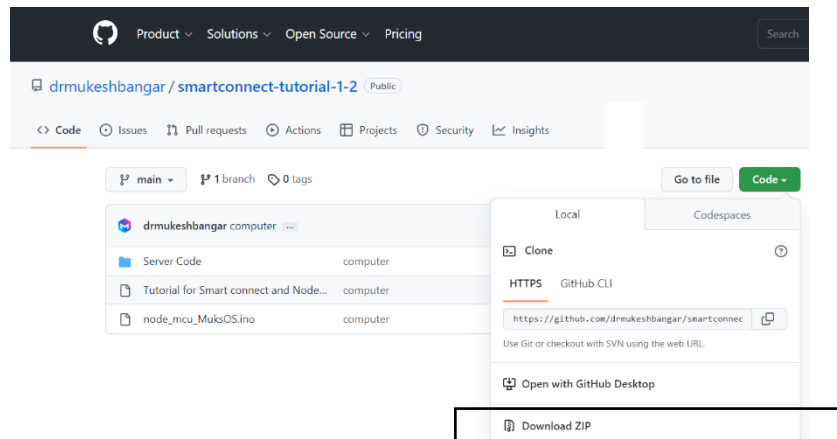
With Router Starter Kit Tutorials:

Project requirements:

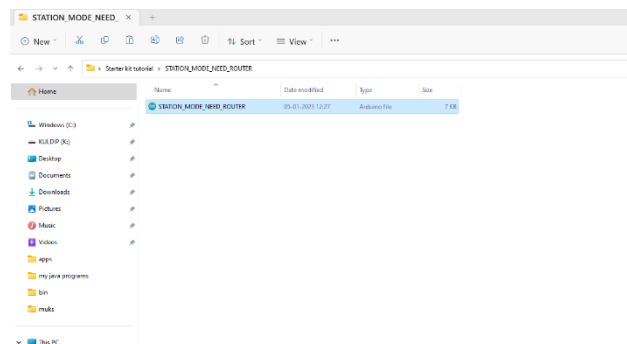
1. Android mobile installed with MuksOS AI Launcher (latest version).
2. Node MCU.
3. WIFI Router

On Arduino setup:

1. Download Arduino zip file and install it



2. Setup Arduino IDE <https://www.instructables.com/Steps-to-Setup-Arduino-IDE-for-NODEMCUESP8266-WiF/> copy link and setup.
3. Download drive CP210x Universal Windows Driver and paste local folder then open device manager and check port. Copy path this folder and paste then install driver.
4. Arduino IDE STATION_MODE_NEED_ROUTER.ino this file copy and open.



5. Fill your router_ssid, router_password and socket_ip in this code.



```
STATION_MODE_NEED_ROUTER | Arduino 1.8.19
File Edit Sketch Tools Help

STATION_MODE_NEED_ROUTER

#include <ESP8266WiFi.h>
#include <WiFiClient.h>
#include <ESP8266WebServer.h>
#include <ESP8266mDNS.h>

#ifdef STASSID
#define STASSID "Add here your router ssid"
#define STAPSK "Add here your router password"
#endif

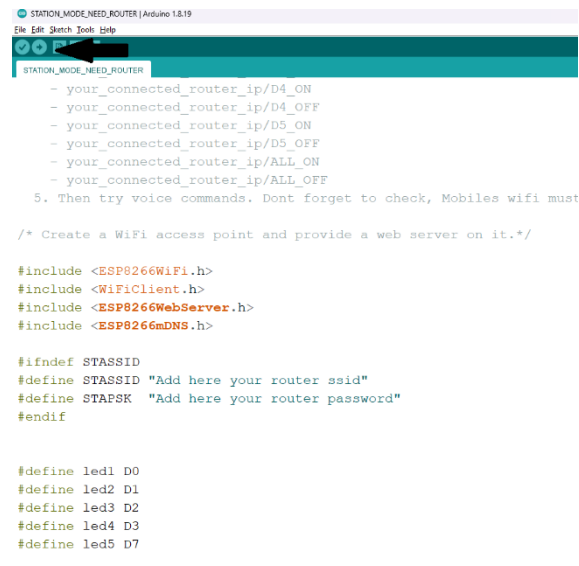
#define led1 D0
#define led2 D1
#define led3 D2
#define led4 D3
#define led5 D7

const char* ssid = STASSID;
const char* password = STAPSK;

ESP8266WebServer server(80);

void handleRoot() {
  server.send(200, "text/plain", "speaking connected to MokuOS");
}
```

6. Compile and upload the code to NODE MCU.



```
STATION_MODE_NEED_ROUTER | Arduino 1.8.19
File Edit Sketch Tools Help

STATION_MODE_NEED_ROUTER

- your_connected_router_ip/D4_ON
- your_connected_router_ip/D4_OFF
- your_connected_router_ip/D5_ON
- your_connected_router_ip/D5_OFF
- your_connected_router_ip/ALL_ON
- your_connected_router_ip/ALL_OFF

5. Then try voice commands. Dont forget to check, Mobiles wifi must

/* Create a WiFi access point and provide a web server on it.*/

#include <ESP8266WiFi.h>
#include <WiFiClient.h>
#include <ESP8266WebServer.h>
#include <ESP8266mDNS.h>

#ifdef STASSID
#define STASSID "Add here your router ssid"
#define STAPSK "Add here your router password"
#endif

#define led1 D0
#define led2 D1
#define led3 D2
#define led4 D3
#define led5 D7
```

7. Once it's done uploading, release the reset button then Open Serial Monitor.



```
STATION_MODE_NEED_ROUTER | Arduino 1.8.19
File Edit Sketch Tools Help

STATION_MODE_NEED_ROUTER

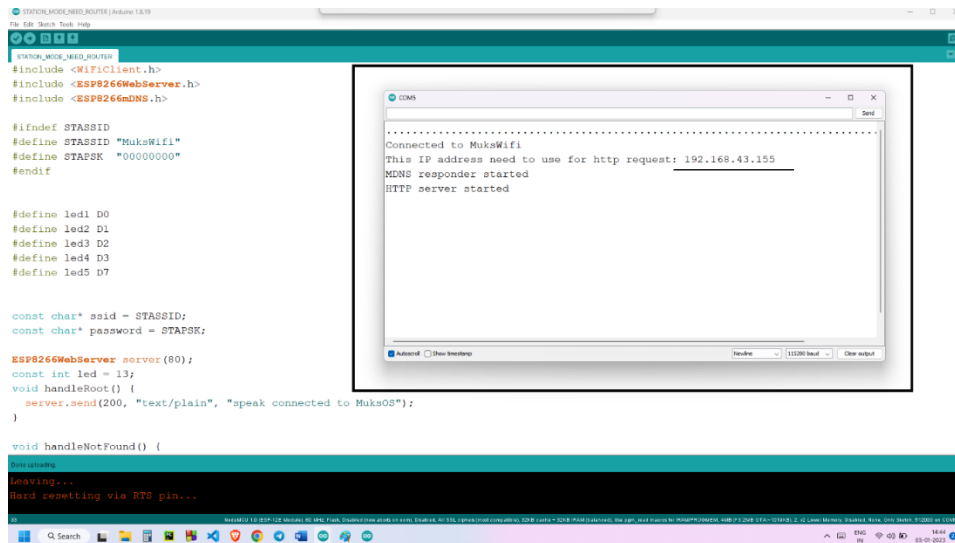
- your_connected_router_ip/D4_ON
- your_connected_router_ip/D4_OFF
- your_connected_router_ip/D5_ON
- your_connected_router_ip/D5_OFF
- your_connected_router_ip/ALL_ON
- your_connected_router_ip/ALL_OFF

5. Then try voice commands. Dont forget to check, Mobiles wifi must be connect with Moku SSID.

/* Create a WiFi access point and provide a web server on it.*/

#include <ESP8266WiFi.h>
#include <WiFiClient.h>
#include <ESP8266WebServer.h>
#include <ESP8266mDNS.h>
```

8. Check if your server is connected or not.



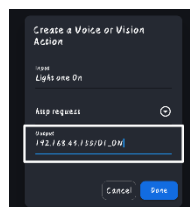
On Mobile Setup:-

1. Connect your phone to same WIFI.
2. Then go to MuksOS App in create action Tab. In input add your voice command eg. "Turn on light". Select 'http request' in action type then add one of the below links as per desirable output.

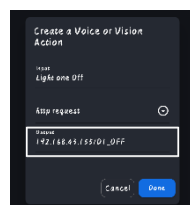
- your_connected_router_ip/D1_ON
- your_connected_router_ip/D1_OFF
- your_connected_router_ip/D2_ON
- your_connected_router_ip/D2_OFF

3. Then try voice commands. Don't forget to check, Mobiles wifi must be connect with Muks SSID.

- 192.168.43.115/D1_ON this link will turn on light 1st



- 192.168.43.115/D1_OFF this link will turn off light 1st



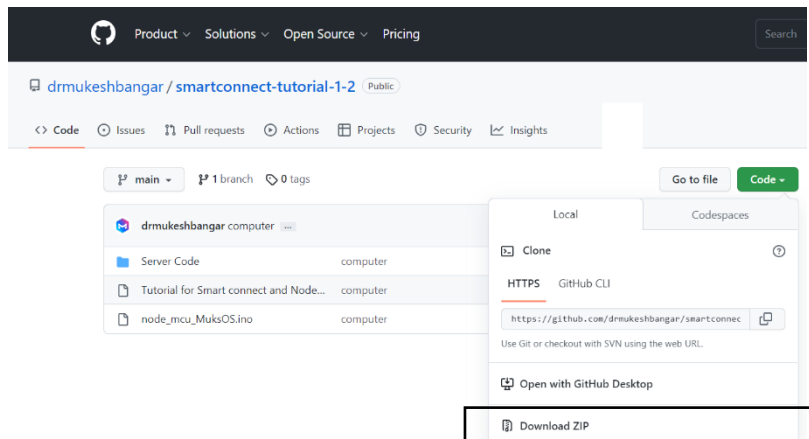
2} With Router Starter Kit Tutorials:

Project requirements:

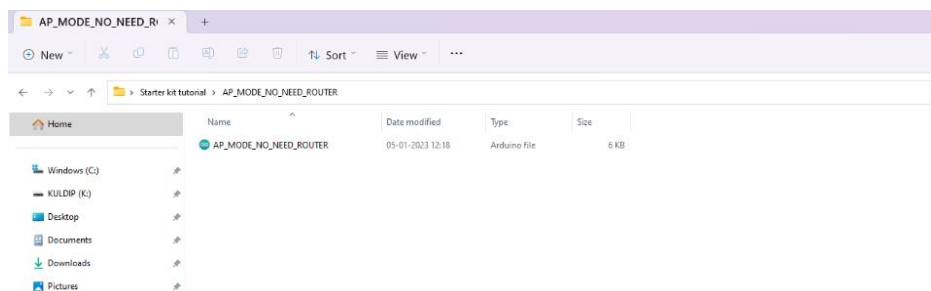
1. Android mobile installed with MuksOS AI Launcher (latest version).
2. Node MCU.

On Arduino setup:-

1. Download Arduino zip file and install it.



2. Setup Arduino IDE <https://www.instructables.com/Steps-to-Setup-Arduino-IDE-for-NODEMCUESP8266-WiF/> copy link and setup.
3. Download drive CP210x Universal Windows Driver and paste local folder then open device manager and check port. Copy path this folder and paste then install driver.
4. Arduino IDE AP_MODE_NO_NEED_ROUTER.ino this file copy and open.



5. Fill your router ssid, router password and socket ip in this sketch.



```
STATION_MODE_NEED_ROUTER.ino
File Edit Sketch Tools Help

STATION_MODE_NEED_ROUTER

#include <ESP8266WiFi.h>
#include <WiFiClient.h>
#include <ESP8266WebServer.h>
#include <ESP8266mDNS.h>

#ifdef STASSID
#define STASSID "Add here your router ssid"
#define STAPSK "Add here your router password"
#endif

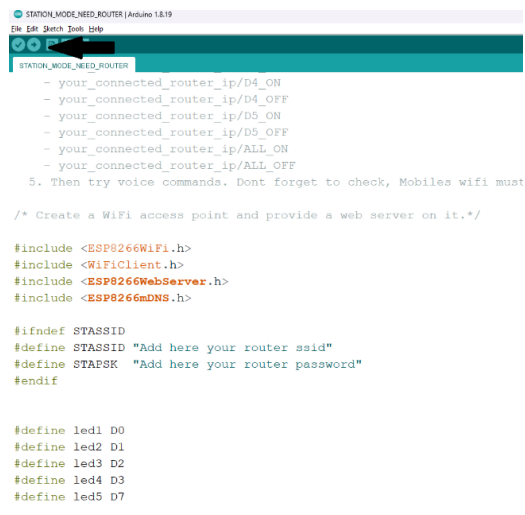
#define led1 D0
#define led2 D1
#define led3 D2
#define led4 D3
#define led5 D7

const char* ssid = STASSID;
const char* password = STAPSK;

ESP8266WebServer server(80);

void handleRoot() {
  server.send(200, "text/plain", "speak connected to Muks08");
}
```

6. Compile and upload the code to NODE MCU.



```
STATION_MODE_NEED_ROUTER
File Edit Sketch Tools Help

STATION_MODE_NEED_ROUTER

- your_connected_router_ip/D4_ON
- your_connected_router_ip/D4_OFF
- your_connected_router_ip/D5_ON
- your_connected_router_ip/D5_OFF
- your_connected_router_ip/ALL_ON
- your_connected_router_ip/ALL_OFF

5. Then try voice commands. Dont forget to check, Mobiles wifi must

/* Create a WiFi access point and provide a web server on it.*/

#include <ESP8266WiFi.h>
#include <WiFiClient.h>
#include <ESP8266WebServer.h>
#include <ESP8266mDNS.h>

#ifdef STASSID
#define STASSID "Add here your router ssid"
#define STAPSK "Add here your router password"
#endif

#define led1 D0
#define led2 D1
#define led3 D2
#define led4 D3
#define led5 D7
```

7. Once it's done uploading, release the reset button then Open Serial Monitor.



```
STATION_MODE_NEED_ROUTER
File Edit Sketch Tools Help

STATION_MODE_NEED_ROUTER

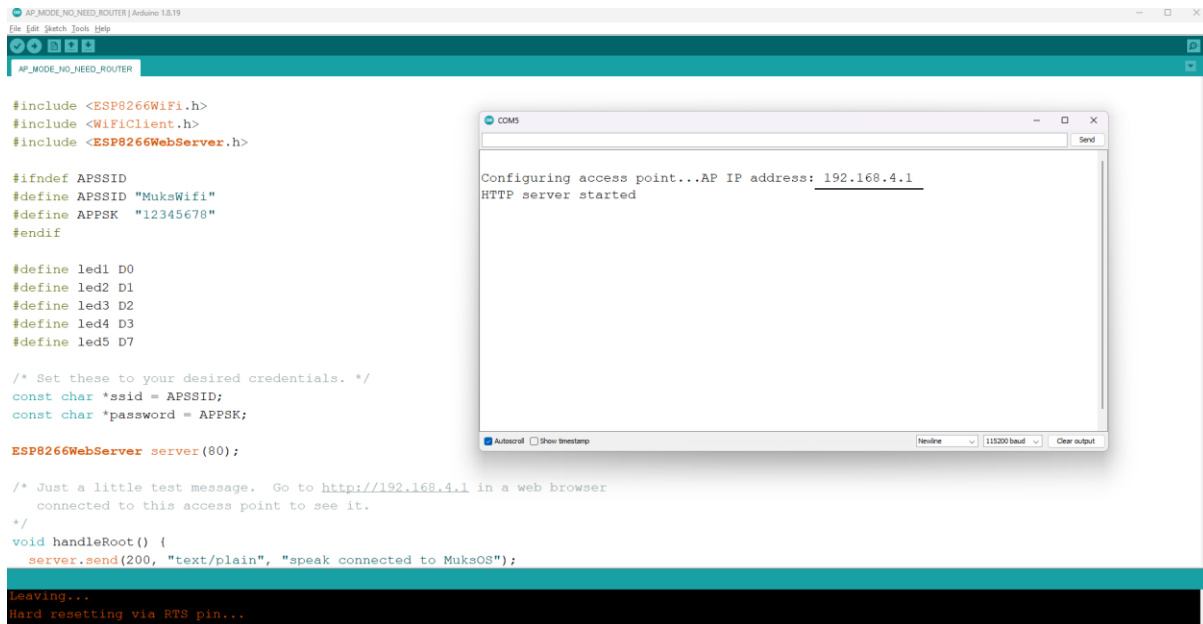
- your_connected_router_ip/D4_ON
- your_connected_router_ip/D4_OFF
- your_connected_router_ip/D5_ON
- your_connected_router_ip/D5_OFF
- your_connected_router_ip/ALL_ON
- your_connected_router_ip/ALL_OFF

5. Then try voice commands. Dont forget to check, Mobiles wifi must be connect with Muks SSID.

/* Create a WiFi access point and provide a web server on it.*/

#include <ESP8266WiFi.h>
#include <WiFiClient.h>
#include <ESP8266WebServer.h>
#include <ESP8266mDNS.h>
```

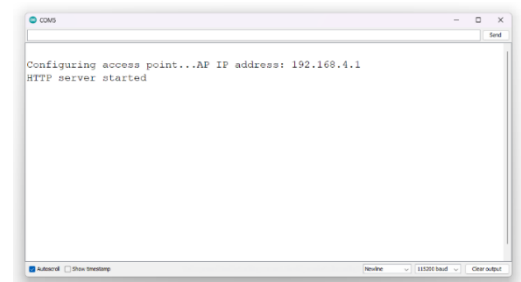
8. Check if your server is created or not.



On Mobile Setup:-

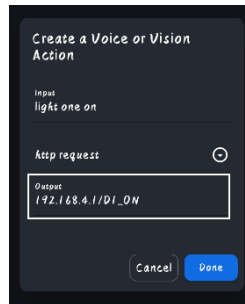
1. Connect your phone to Muks Wi-Fi.
2. Now It's done.
3. Then go to MuksOS App in create action Tab. In input add your voice command eg. "Turn on light". Select 'http request' in action type then add one of the below links as per desirable output.

- your_connected_router_ip/D1_ON
- your_connected_router_ip/D1_OFF
- your_connected_router_ip/D2_ON
- your_connected_router_ip/D2_OFF



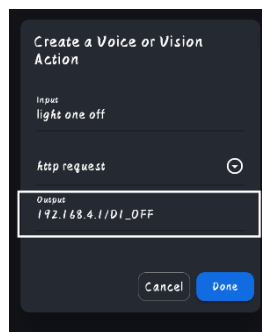
4. Then try voice commands. Don't forget to check Mobile's wifi is connected with Muks Wifi SSID.

- 192.168.4.1/D1_ON this link will turn on light 1st



The screenshot shows a dark-themed dialog box titled "Create a Voice or Vision Action". It has two sections: "Input" with the text "light one on" and "Http request" with a circular arrow icon. Below the "Http request" section is a text box containing the URL "192.168.4.1/D1_ON". At the bottom are "Cancel" and "Done" buttons.

- 192.168.4.1/D1_OFF this link will turn off light 1st



The screenshot shows a dark-themed dialog box titled "Create a Voice or Vision Action". It has two sections: "Input" with the text "light one off" and "Http request" with a circular arrow icon. Below the "Http request" section is a text box containing the URL "192.168.4.1/D1_OFF". At the bottom are "Cancel" and "Done" buttons.