Deep-Sleep

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- ESP8266 Mikrokontroller

Code

```
#include <ESP8266WiFi.h>
#include <WiFiClientSecure.h>
#include <UniversalTelegramBot.h>
#include <ArduinoJson.h>

char ssid[] = "WLAN-SSID";         // your network SSID (name)
char password[] = "WLAN-PASS"; // your network password
#define TELEGRAM_BOT_TOKEN "yyyyyy-zzzz"

// This is the Wifi client that supports HTTPS
WiFiClientSecure client;
UniversalTelegramBot bot(TELEGRAM_BOT_TOKEN, client);

void setup() {
  boolean sleep = false;
  boolean first = true;

  Serial.begin(115200);
  Serial.println("initial");
  pinMode(LED_BUILTIN, OUTPUT);
  digitalWrite(LED_BUILTIN, LOW);

  // Set WiFi to station mode and disconnect from an AP if it was Previously
connected
  WiFi.mode(WIFI_STA);
  WiFi.disconnect();
  delay(100);

  // attempt to connect to Wifi network:
  Serial.print("Connecting Wifi: ");
  Serial.println(ssid);
  WiFi.begin(ssid, password);

  while (WiFi.status() != WL_CONNECTED) {
    Serial.print(".");
    delay(500);
  }
```

```
  Serial.println("WiFi connected");
  Serial.print("IP address: ");
  Serial.println(WiFi.localIP());

  // Only required on 2.5 Beta
  client.setInsecure();

  bot.longPoll = 10;

  int numNewMessages = bot.getUpdates(bot.last_message_received + 1);

  while (true) {
    numNewMessages = bot.getUpdates(bot.last_message_received + 1);
    if (!numNewMessages && sleep) {
      Serial.println("sleeping");
      ESP.deepSleep(60e6); //sleep for 10 seconds max 71min
    }
    else {
      Serial.println("else");
      for (int i = 0; i < numNewMessages; i++) {
        String chat_id = String(bot.messages[i].chat_id);
        String text = bot.messages[i].text;

        if (first) {
          if (sleep) {
            bot.sendMessage(chat_id, "sleep : true\n", "Markdown");
          } else {
            bot.sendMessage(chat_id, "sleep : false\n", "Markdown");
          }
          boolean first = false;
        }

        if (text == F("/ip")) {
          bot.sendMessage(chat_id, "local IP: 127.0.0.1\n", "Markdown");
        }
        else if (text == F("/temp")) {
        }
        else if (text == F("/wake")) {
          bot.sendMessage(chat_id, "sleep : false\n", "Markdown");
          sleep = false;
        }
        else if (text == F("/sleep")) {
          bot.sendMessage(chat_id, "sleep : true\n", "Markdown");
          sleep = true;
        }
        else {
          Serial.println("else");
          if (sleep) {
            bot.sendMessage(chat_id, "sleep : true\n", "Markdown");
          } else {
```

```
            bot.sendMessage(chat_id, "sleep : false\n", "Markdown");
          }
          bot.sendMessage(chat_id, "/sleep : go to sleep for 1 minute\n",
"Markdown");
          bot.sendMessage(chat_id, "/wake : stay awake\n", "Markdown");
        }
      }
    }
  }
}

void loop() {

}
```