```
#include <WiFi.h>
#include <WiFiClient.h>
#include <WebServer.h>
#include <ESPmDNS.h>
#include <DHT.h>
//variáveis de conexão
const char *ssid = "RENAN MARCELO FIBRA";
const char *password = "11/09/2003";
#define LED 4
const int gas_digital = 35;
const int buzzer = 2;
WebServer server(80);
DHT dht(26, DHT11);
void handleRoot() {
 char msg[1500];
 snprintf(msg, 1500,
      "<html>\
 <head>\
  <meta http-equiv='refresh' content='4'/>\
  <meta name='viewport' content='width=device-width, initial-scale=1'>\
  link rel='stylesheet' href='https://use.fontawesome.com/releases/v5.7.2/css/all.css' integrity='sha384-
fnmOCqbTlWllj8LyTjo7mOUStjsKC4pOpQbqyi7RrhN7udi9RwhKkMHpvLbHG9Sr' crossorigin='anonymous'>\
  <title>Monitoramento de DataCenter</title>\
  <style>\
  html { font-family: Arial; display: inline-block; margin: 0px auto; text-align: center;}\
  h2 { font-size: 3.0rem; }\
  p { font-size: 3.0rem; }\
  .units { font-size: 1.2rem; }\
  .dht-labels{ font-size: 1.5rem; vertical-align:middle; padding-bottom: 15px;}\
  </style>\
 </head>\
 <body>\
   <h2>Monitoramento de DataCenter</h2>\
   \
    <i class='fas fa-thermometer-half' style='color:#ca3517;'></i>\
    <span class='dht-labels'>Temperatura</span>\
    <span>%.2f</span>\
    <sup class='units'>&deg;C</sup>\
   \
   \
    <i class='fas fa-tint' style='color:#00add6;'></i>\
    <span class='dht-labels'>Humidade</span>\
    <span>%.2f</span>\
    <sup class='units'>&percnt;</sup>\
   \
   \
    <i class='fas fa-smoke' style='color:#00add6;'></i>\
    <span class='dht-labels'>Gas</span>\
    <span>%.2f</span>\
   \
</body>
</html>",
     readDHTTemperature(), readDHTHumidity(), readGasSensor()
     );
```

```
server.send(200, "text/html", msg);
void setup(void) {
 Serial.begin(115200);
 dht.begin();
 pinMode(LED, OUTPUT);
 pinMode(buzzer, OUTPUT);
 WiFi.mode(WIFI_STA);
 WiFi.begin(ssid, password);
 Serial.println("");
 while (WiFi.status() != WL_CONNECTED) {
  delay(500);
  Serial.print(".");
 Serial.println("");
 Serial.print("Connected to ");
 Serial.println(ssid);
 Serial.print("IP address: ");
 Serial.println(WiFi.localIP());
 if (MDNS.begin("esp32")) {
  Serial.println("MDNS responder started");
 server.on("/", handleRoot);
 server.begin();
 Serial.println("HTTP server started");
void loop(void) {
 int sensorValue_digital = analogRead(gas_digital);
 if(sensorValue_digital < 400){
  digitalWrite(LED, HIGH);
}
 else{
  digitalWrite(LED, LOW);
 server.handleClient();
 delay(2);//allow the cpu to switch to other tasks
float readGasSensor() {
 int sensorValue_digital = analogRead(gas_digital);
 Serial.println(sensorValue_digital);
 return sensorValue_digital;
float readDHTTemperature() {
 float t = dht.readTemperature();
```

```
if (isnan(t)) {
  Serial.println("Failed to read from DHT sensor!");
 }
 else {
  Serial.println(t);
  return t;
 }
float readDHTHumidity() {
float h = dht.readHumidity();
 if (isnan(h)) {
  Serial.println("Failed to read from DHT sensor!");
  return -1;
 }
 else {
  Serial.println(h);
  return h;
}
```