Roundcube Webmail :: Inbox | New ESP32 Project - Wokwi Simu | WhatsApp

wokwi.com/projects/new/esp32

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sketch.ino ● diagram.json ● libraries.txt ● Library Manager

```
#include <WiFi.h>//library for wifi
#include <PubSubClient.h>//library for MQtt

int trigpin=2;
int echopin=4;
String data3;

void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)
#define ORG "v22cas"//IBM ORGANITION ID
#define DEVICE_TYPE "abcd"//Device type mentioned in ibm watson IOT Platform
#define DEVICE_ID "1234"//Device ID mentioned in ibm watson IOT Platform
#define TOKEN "12345678"      //Token

char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of even
char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd  REPRESENT comma
char authMethod[] = "use-token-auth";// authentication method
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char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id

WiFiClient wifiClient; // creating the instance for wificlient
PubSubClient client(server, 1883, callback ,wifiClient); //calling the predefi


void setup() {
  Serial.begin(9600);
  Serial.println("Hello, ESP32!");
  pinMode(2, OUTPUT);
  pinMode(4, INPUT);
```
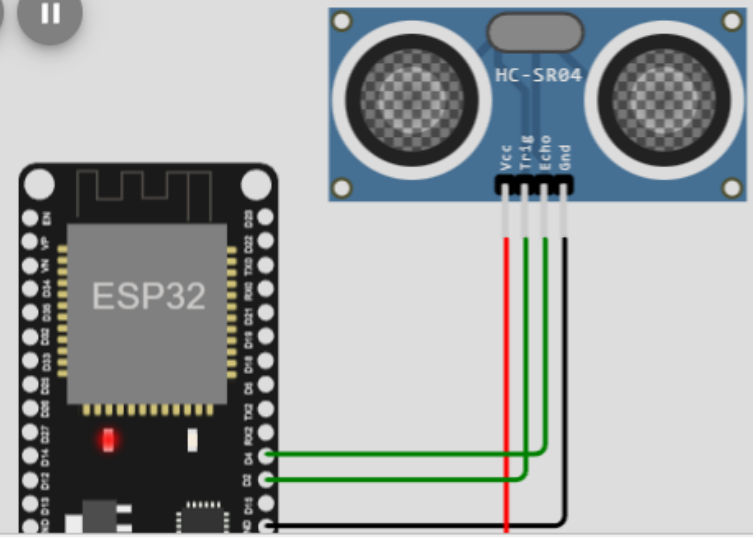

Simulation

00:01.766 37%

Restart the simulation




```
Hello, ESP32!

Connecting to ..
WiFi connected
IP address:
10.10.0.2
Reconnecting client to v22cas.messaging.internetofthings.ibmcloud.com
```

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ENG 00:37 06-11-2022

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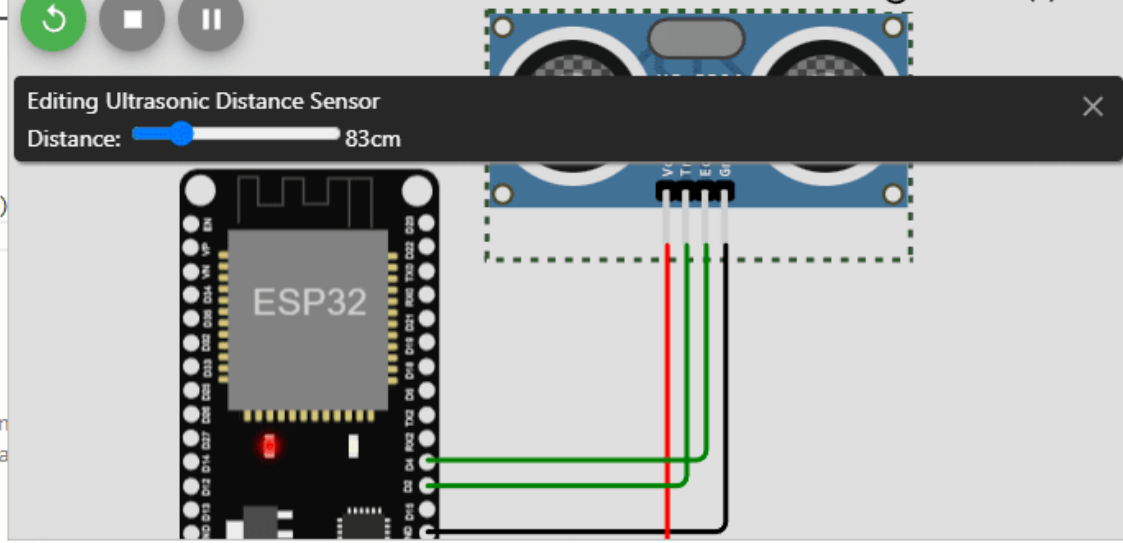
Simulation

00:38.320 13%

Editing Ultrasonic Distance Sensor

Distance: 83cm




```
Distance: 20.17 cms
Sending payload: {"Distance":20.17,"Message":"alert"}
Publish ok
Distance: 20.12 cms
Sending payload: {"Distance":20.12,"Message":"alert"}
Publish ok
Distance: 83.73 cms
```

Type here to search

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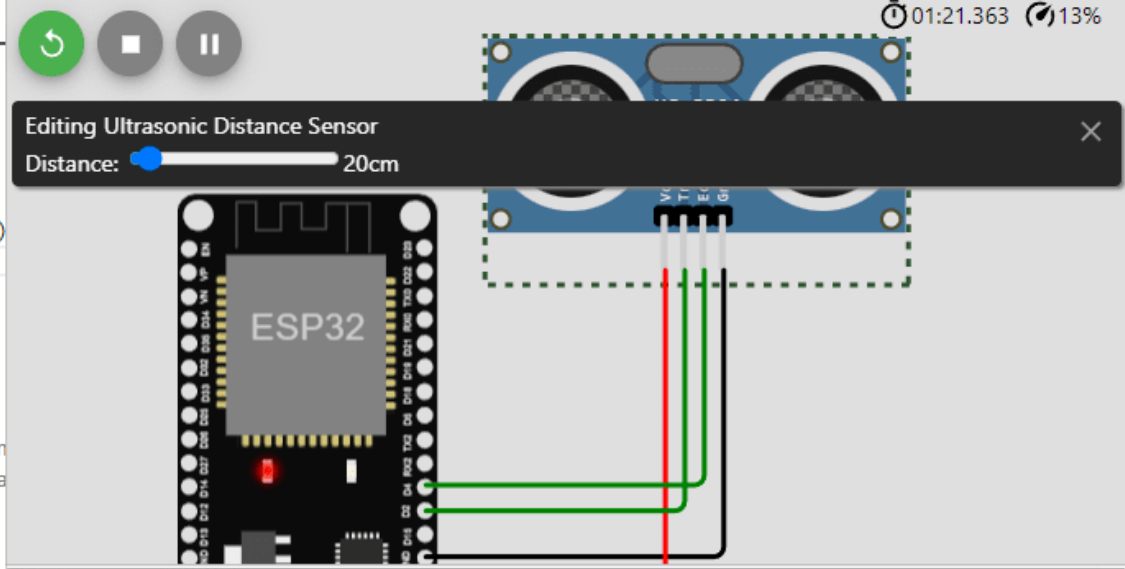
Simulation

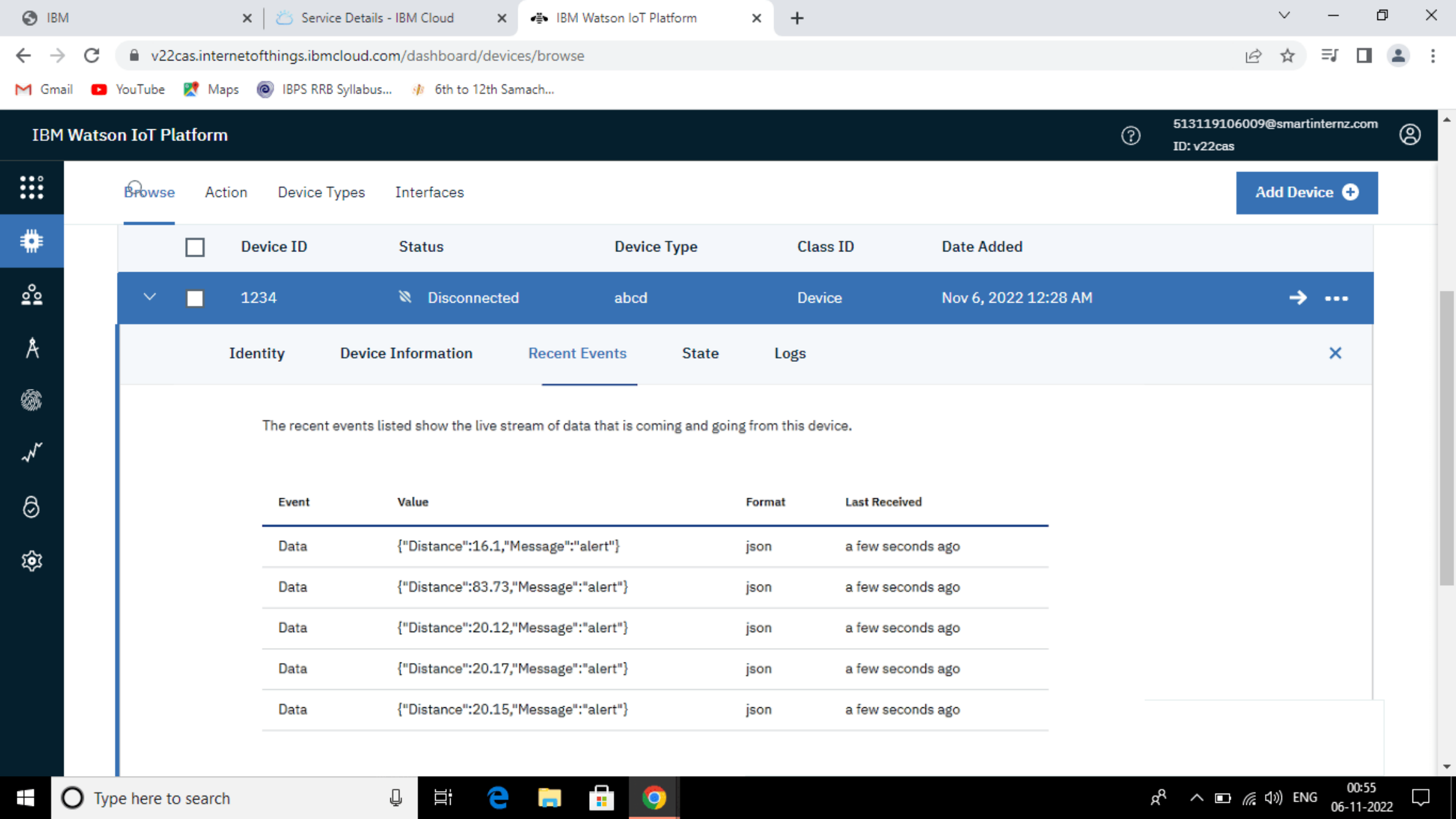
01:21.363 13%




```
Distance: 314.70 cms
Distance: 321.77 cms
Distance: 403.49 cms
Distance: 20.15 cms
Sending payload: {"Distance":20.15,"Message":"alert"}
Publish ok
Distance: 20.17 cms
```

Type here to search

ENG 00:45 06-11-2022


IBM
Service Details - IBM Cloud
IBM Watson IoT Platform
v22cas.internetofthings.ibmcloud.com/dashboard/devices/browse
Gmail
YouTube
Maps
IBPS RRB Syllabus...
6th to 12th Samach...
IBM Watson IoT Platform
513119106009@smartinternz.com
ID: v22cas
Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
1234
Disconnected
abcd
Device
Nov 6, 2022 12:28 AM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
Data
{"Distance":16.1,"Message":"alert"}
json
a few seconds ago
Data
{"Distance":83.73,"Message":"alert"}
json
a few seconds ago
Data
{"Distance":20.12,"Message":"alert"}
json
a few seconds ago
Data
{"Distance":20.17,"Message":"alert"}
json
a few seconds ago
Data
{"Distance":20.15,"Message":"alert"}
json
a few seconds ago
Type here to search
ENG
00:55
06-11-2022

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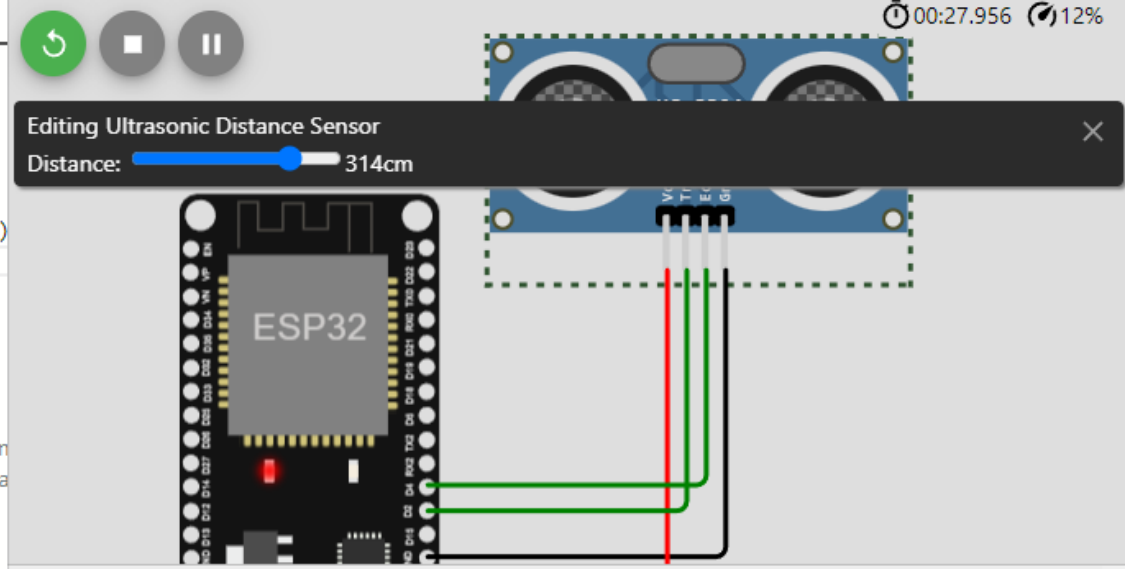
Simulation

00:27.956 12%




```
iot-2/cmd/command/fmt/String
subscribe to cmd OK

Distance: 208.77 cms
Distance: 208.77 cms
Distance: 208.77 cms
Distance: 314.70 cms
```

Type here to search

ENG 00:40 06-11-2022