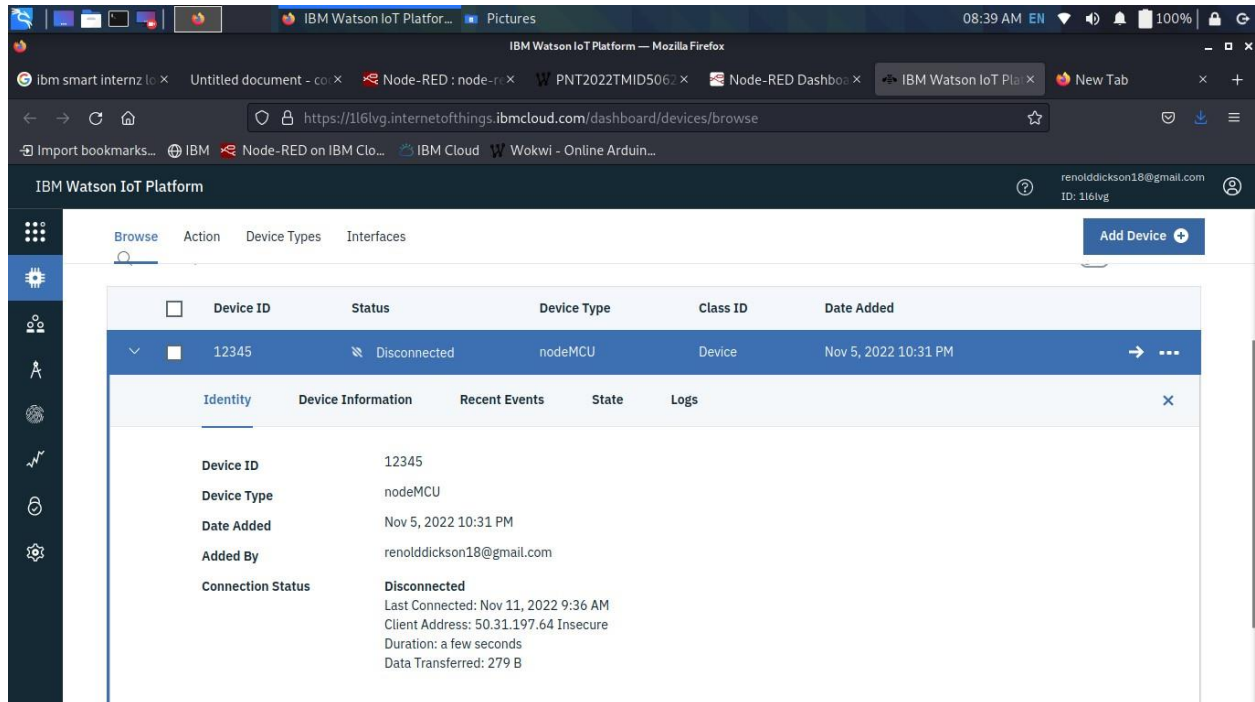


# SPRINT - 1

Project Title:	Personal Assistant for Senior Citizen
Team ID:	PNT2022TMID40025

**Created IOT device config in IBM IOT watson**



**Connected IBM IOT watson cloud with wokwi(nodemcu)**

**Wokwi url:** <https://wokwi.com/projects/347406552336958036>

**Code:**

```
#include<WiFi.h>//library for wifi module #include<PubSubClient.h>//library
for MQTT void callback(char* subscribetopic, byte* payload,unsigned int
payloadlength);
//-----credentials of IBM Account-----
#define ORG "twoqgm"// IBM ORGANIZATION ID
#define DEVICE_TYPE "nodemcu"//DEVICE TYPE MENTIONED IN IOT WATSON
PLATFORM
#define DEVICE_ID "11111"//DEVICE ID MENTIONED IN IOT WATSON PLATEFORM
#define TOKEN "XsgsvH8+*w4p2Y_XQO"//Token
String data3;
```

```

float dist;
//-----customize the above value-----char server[]=ORG
".messaging.internetofthings.ibmcloud.com";//server name char
publishtopic[]="ultrasonic/evt/Data/fmt/json";//topic name and type of event perform and
format in which data to be send*/
char subscribetopic[]="ultrasonic/cmd/test/fmt/String";//cmd REPRESENT Command tupe and
COMMAND IS TEST OF FORMAT STRING*/char authMethod[]="use-token-
auth";//authentication method char token[]=TOKEN; char clientid[]="d:" ORG ":"
DEVICE_TYPE":" DEVICE_ID;//CLIENT ID
//-----
WiFiClient wifiClient;// creating an instance for wificlient
PubSubClient client(server, 1883 , wifiClient); void
setup()
{
Serial.begin(115200);
wificonnect();
mqttconnect();
}
void loop()//recursive function
{
if (!client.loop()){
mqttconnect();
}
}
/*.....retriving to cloud.....*/
void mqttconnect(){ if(!client.connected()){
Serial.print("Reconnecting client to ");
Serial.println(server);
while(!client.connect(clientid,authMethod, token)){
Serial.print("."); delay(500); }
initManagedDevice();
Serial.println();
}
else{
Serial.println("Connected :");
} } void wificonnect()//function defenition for
wificonnects
{
Serial.println();
Serial.print("Connecting to ");
WiFi.begin("Wokwi-GUEST", "",6);//PASSING THE WIFI CREDIDENTIALS TO ESTABLISH
CONNECTION
while (WiFi.status() !=WL_CONNECTED){delay(500);
Serial.print(".");
}

```

Personal Assistant For S... Personal Assistant For S... Service Details - IBM Clou... IBM Watson IoT Platform x sketch.ino - Wokwi Arduino x

wokwi.com/projects/347406552336958036

Gmail Translate YouTube Maps II CSE - OOPSA SMTEC How to authen... Welcome to a... React Challen... Fancis xavier E...

**WOKWI** SAVE SHARE

Docs SIGN UP

sketch.ino diagram.json libraries.txt Library Manager

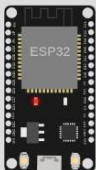
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9 String data3;
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23
24
25 void setup()
26 {
27   Serial.begin(115200);
28   wificonnect();
29   mqttconnect();

```

**Simulation**

00:20.288 57%



Connecting to ....  
 WiFi connected  
 IP address  
 10.10.0.2  
 Reconnecting client to  
 twoqgm.messaging.internetofthings.ibmcloud.com  
 ultrasonic/cmd/test/fmt/String  
 subscribe to cmd OK

Url: <https://pnt2022tmid50622.atlassian.net/jira/software/projects/PAFSCII/boards/1>

[illegible]