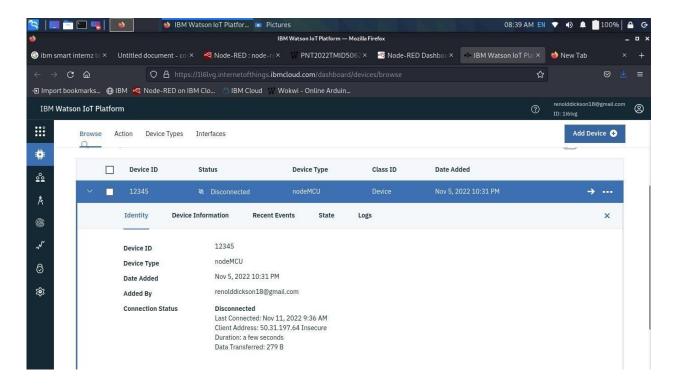
# **SPRINT - 1**

Team ID	PNT2022TMID46618
Project Name	Personal Assistance for Seniors Who are self-reliant
Date	15November2022

### 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();
/*....*/ 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(".");
Serial.println("");
Serial.println("WiFi connected");
```

```
Serial.println("IP address");
Serial.println(WiFi.localIP()); }
 void initManagedDevice(){
if(client.subscribe(subscribetopic)){
Serial.println((subscribetopic));
Serial.println("subscribe to cmd OK");
 }else{
Serial.println("subscribe to cmd failed");
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         Personal Assistant For Sex Personal Assistant For Sex Service Details - IBM Cloex
                                                                                                                                                                                                      IBM Watson IoT Platform ×
                                 wokwi.com/projects/347406552336958036
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                                      diagram.json libraries.txt ● Library Manager
                          #include<WiFi.h>//library for wifi module
#include<PubSubClient.h>//library for MQTT
                                                                                                                                                                                                                                                                                                                                       Ō00:20.288 (%)57%
                           void callback(char* subscribetopic, byte* payload,unsigned int payloadl
                          //----redentials of IBM Account-----
#define ORG "twoqgm"// IBM ORGANIZATION ID
#define DEVICE_TYPE "nodemcu"//DEVICE TYPE MENTIONED IN IOT WATSON PLAT
                           #define DEVICE_ID "11111"//DEVICE ID MENTIONED IN IOT WATSON PLATEFO
                           #define TOKEN "XsgsvH8+*w4p2Y XQ0"//Token
                           String data3;
                10
                           float dist:
                           //------customize the above value------char server[]=ORG ".messaging.internetofthings.ibmcloud.com";//server rehar publishtopic[]="ultrasonic/evt/Data/fmt/json";/*topic name and typic publishtopic[]="ultrasonic/evt/Data/fmt/json";/topic name and typic publishtopic[]="ultrasonic/evt/Data/fmt/json";/topic name and typic publishtopic[]="ultrasonic/evt/Data/fmt/json";/topic name and typic name 
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                              and format in which data to be send
                           char subscribetopic[]="ultrasonic/cmd/test/fmt/String":/*cmd REPRESENT
COMMAND IS TEST OF FORMAT STRING*/
char authMethod[]="use-token-auth"://authentication method
                16
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                           char token[]="OKEN;
char clientid[]="d:" ORG ":" DEVICE_TYPE":" DEVICE_ID;//CLIENT ID
                                                                                                                                                                                          Connecting to ....
                19
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                                                                                                                                                                                          WiFi connected
                                                                                                                                                                                          IP address
                          WiFiClient wificlient;// creating an instance for wificlient PubSubClient client(server, 1883 , wificlient);
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                                                                                                                                                                                          10.10.0.2
               22
                                                                                                                                                                                          Reconnecting client to
                                                                                                                                                                                          two qgm.mess aging.internet of things.ibm cloud.com\\
               25
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27
                           void setup()
                                                                                                                                                                                          ultrasonic/cmd/test/fmt/String
                                                                                                                                                                                           subscribe to cmd OK
                               Serial.begin(115200);
                          wificonnect();
mattconnect():
                                                                                                                                                                                                                                                                                                                                                  ∠ ► 0
```

#### Jira process:

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

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> PAFSCII-10 Sprint 3														
> PAFSCII-11 Sprint 4														