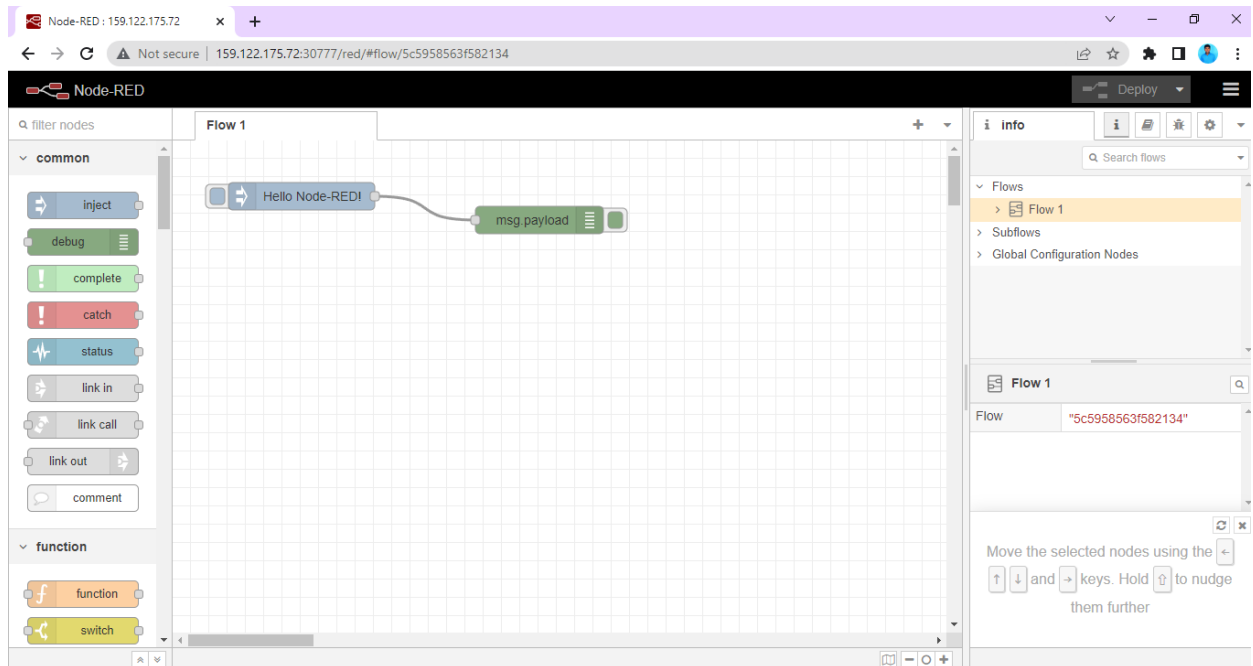


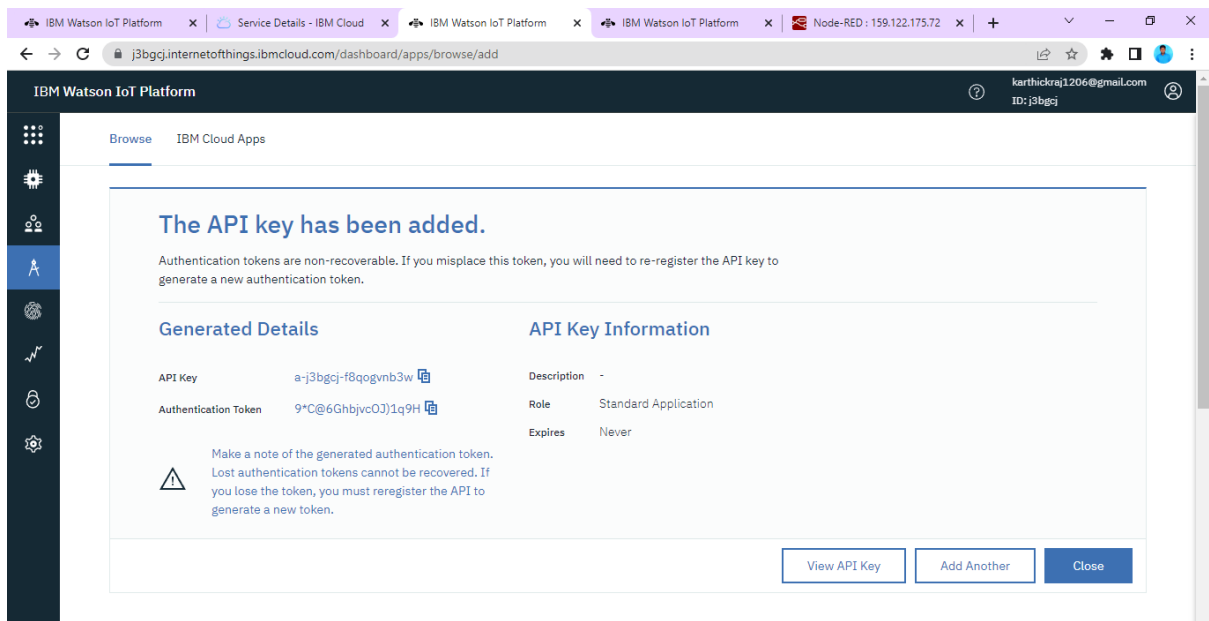
## WEB APPLICATION USE NODE RED

Team ID	PNT2022TMID46860
Project Name	Smart Farmer-IOT Enable smart Farming Application

### NODERED:



### API KEY FOR NODE RED:



## PUBLISH RANDOM VALUE:

The screenshot displays the IBM Watson IoT Platform dashboard. The main view shows the 'Recent Events' for a device named 'node' (ID: 123456). The events are listed in a table with columns 'Event' and 'Value'.

Event	Value
event_1	{"randomNumber":62}
event_1	{"randomNumber":82}
event_1	{"randomNumber":74}
event_1	{"randomNumber":50}
event_1	{"randomNumber":13}

On the right, a configuration window for 'Device Type: 123456' is open. It shows the 'Events' section with a table for event configuration:

Event type name	Schedule	Payload
event_1	1 Every Minute	<pre>{   1: "randomNumber": random(2, 100) }</pre>

The 'Payload' section includes a text editor with the JSON payload and a 'Send' button. Below the table, there is an 'Upload a CSV file' button and a link 'What functions can I apply?'.

The screenshot shows the Node-RED interface. A flow named 'Flow 1' is active. It consists of the following nodes:

- IBM IoT** (connected)
- function** (with a custom function: `random(2, 100)`)
- msg.payload** (output node)

The flow is triggered by a 'Hello Node-RED!' node. The output of the 'function' node is connected to the 'msg.payload' node. The 'debug' console on the right shows the following log entries:

```
11/16/2022, 11:04:09 AM node: f2f2649a.0d0d98
iot-2/type/123456/id/node/ev1/event_1/fmt/json :
msg.payload : number
81

11/16/2022, 11:04:10 AM node: f2f2649a.0d0d98
iot-2/type/123456/id/123456_1/ev1/event_1/fmt/json :
msg.payload : number
100

11/16/2022, 11:04:13 AM node: f2f2649a.0d0d98
iot-2/type/123456/id/123456_1/ev1/event_1/fmt/json :
msg.payload : number
13

11/16/2022, 11:04:13 AM node: f2f2649a.0d0d98
iot-2/type/123456/id/123456_1/ev1/event_1/fmt/json :
msg.payload : number
40
```

IBM Watson IoT Platform | Service Details - IBM Cloud | IBM Watson IoT Platform | Node-RED : 159.122.175.72

Not secure | 159.122.175.72:30777/red/#flow/ec166665cb8fad74

### Node-RED

filter nodes

comment

function

- function
- switch
- change
- range
- template
- delay
- trigger
- filter
- OpenWhisk

network

Flow 1

Hello Node-RED!

msg.payload

IBM IoT

connected

function

debug

msg.payload : number

81

11/16/2022, 11:04:10 AM node: f2f2649a-0d0d98  
iot-2/type/123456/id/123456\_1/evt/event\_1/fmt/json :  
msg.payload : number  
100

11/16/2022, 11:04:13 AM node: f2f2649a-0d0d98  
iot-2/type/123456/id/123456\_1/evt/event\_1/fmt/json :  
msg.payload : number  
13

11/16/2022, 11:04:13 AM node: f2f2649a-0d0d98  
iot-2/type/123456/id/123456\_1/evt/event\_1/fmt/json :  
msg.payload : number  
40

11/16/2022, 11:05:07 AM node: f2f2649a-0d0d98  
iot-2/type/123456/id/123456\_1/evt/event\_1/fmt/json :  
msg.payload : number  
50

11/16/2022, 11:05:07 AM node: f2f2649a-0d0d98  
iot-2/type/123456/id/123456\_1/evt/event\_1/fmt/json :  
msg.payload : number  
31