SPRINT 2

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

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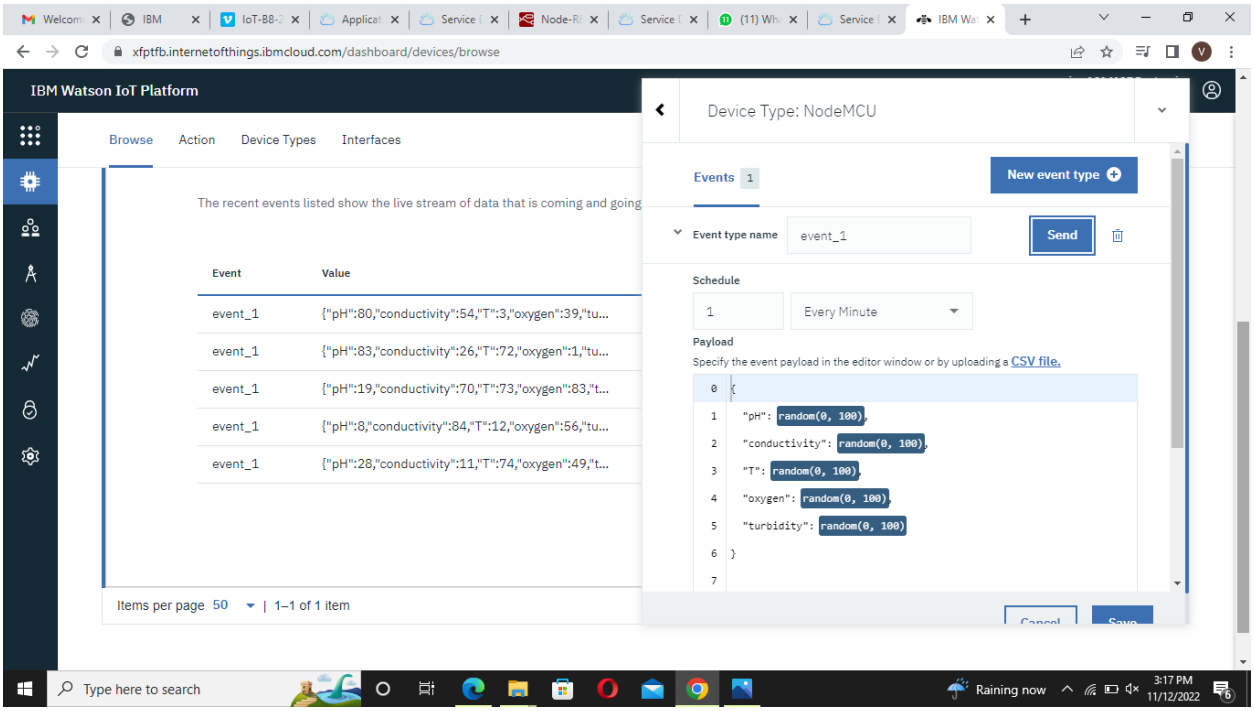
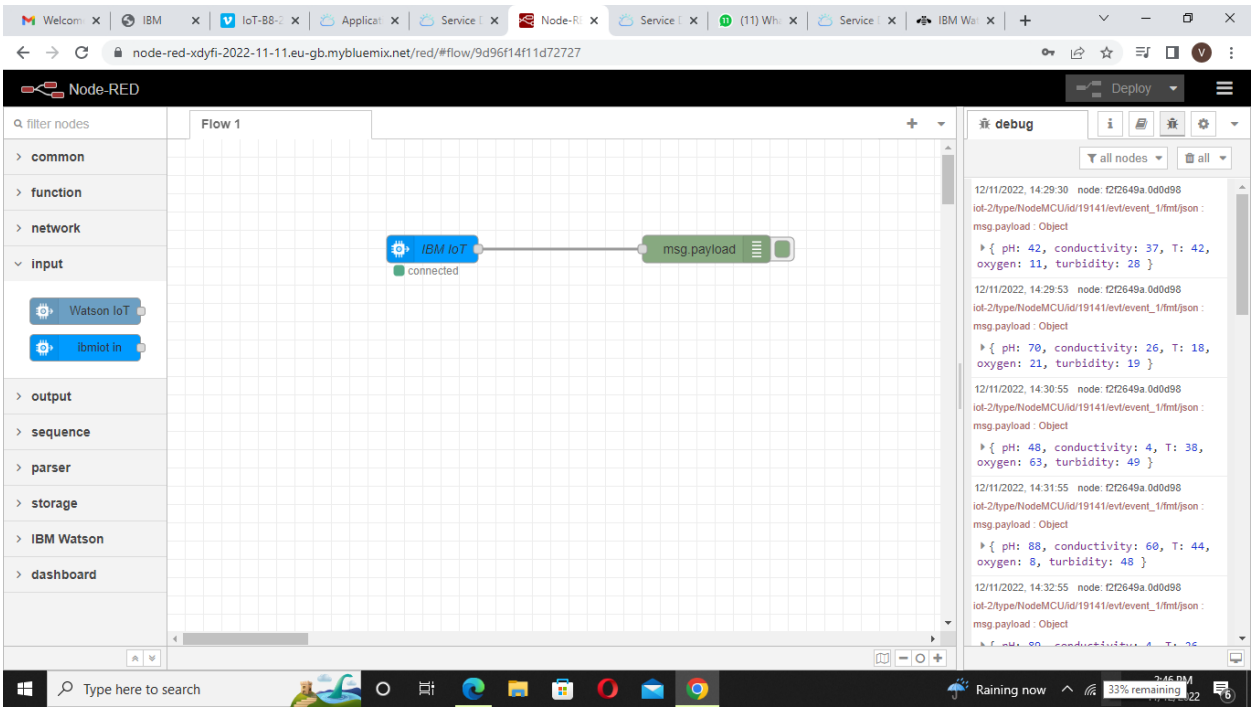
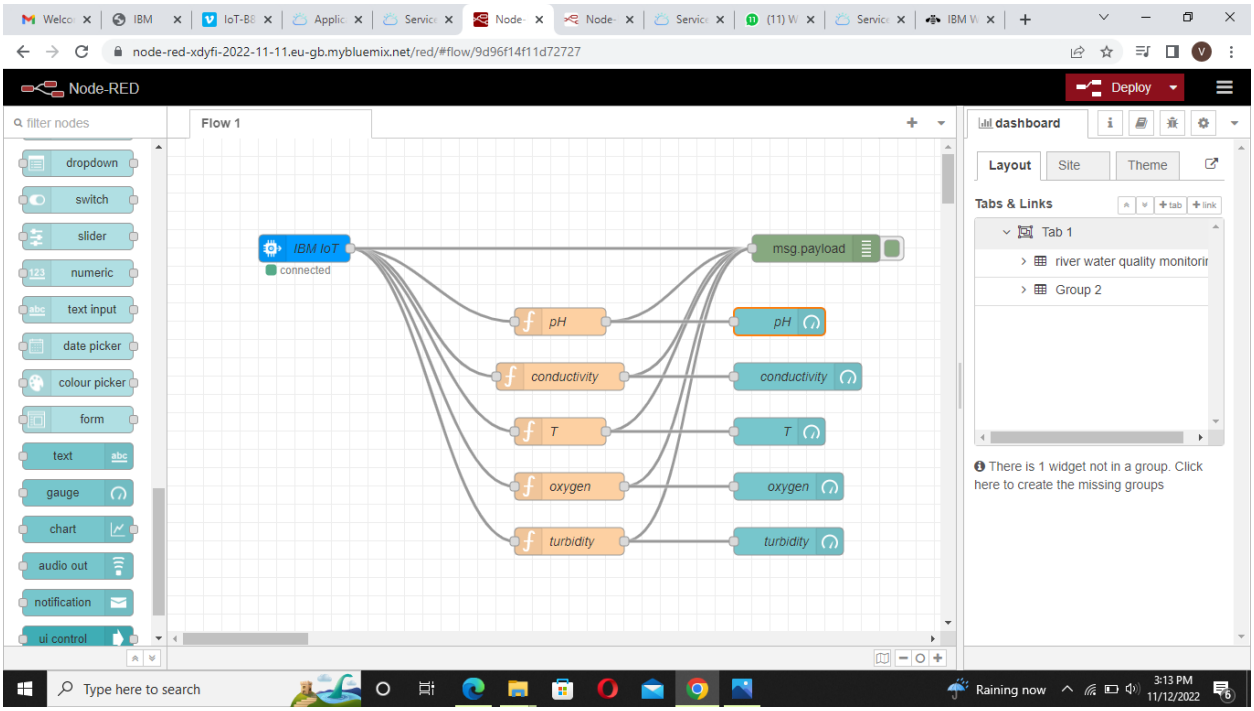
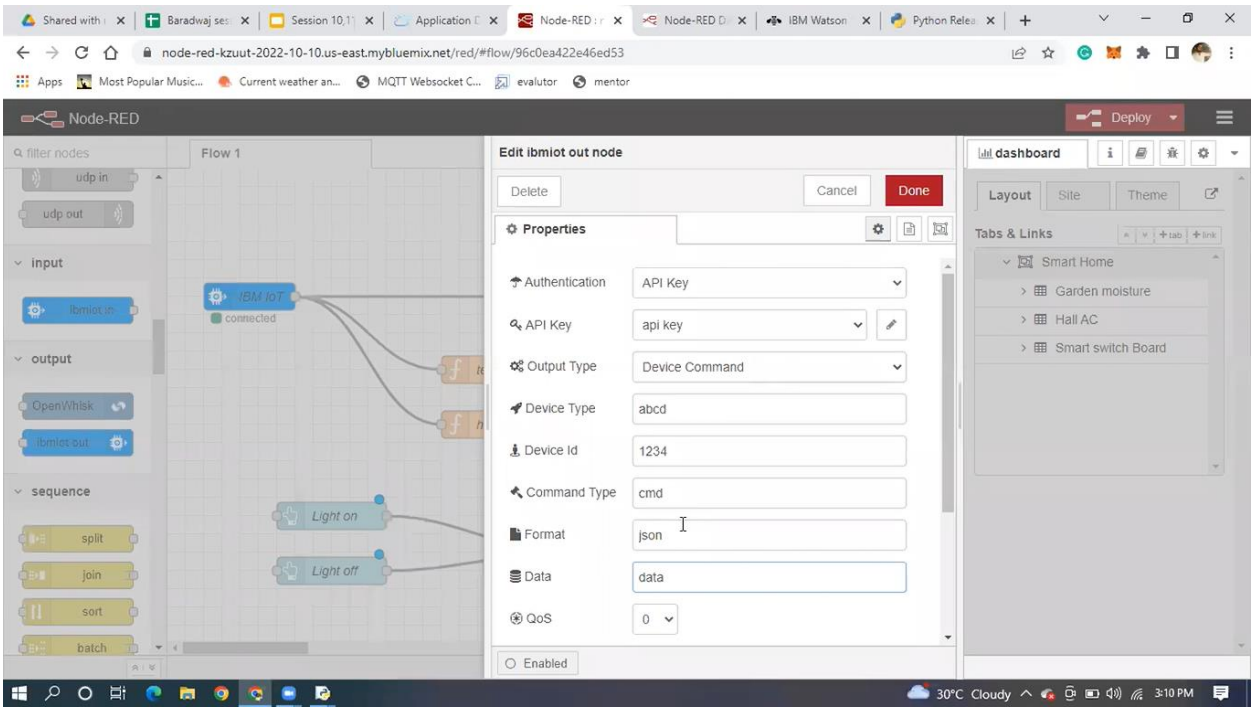
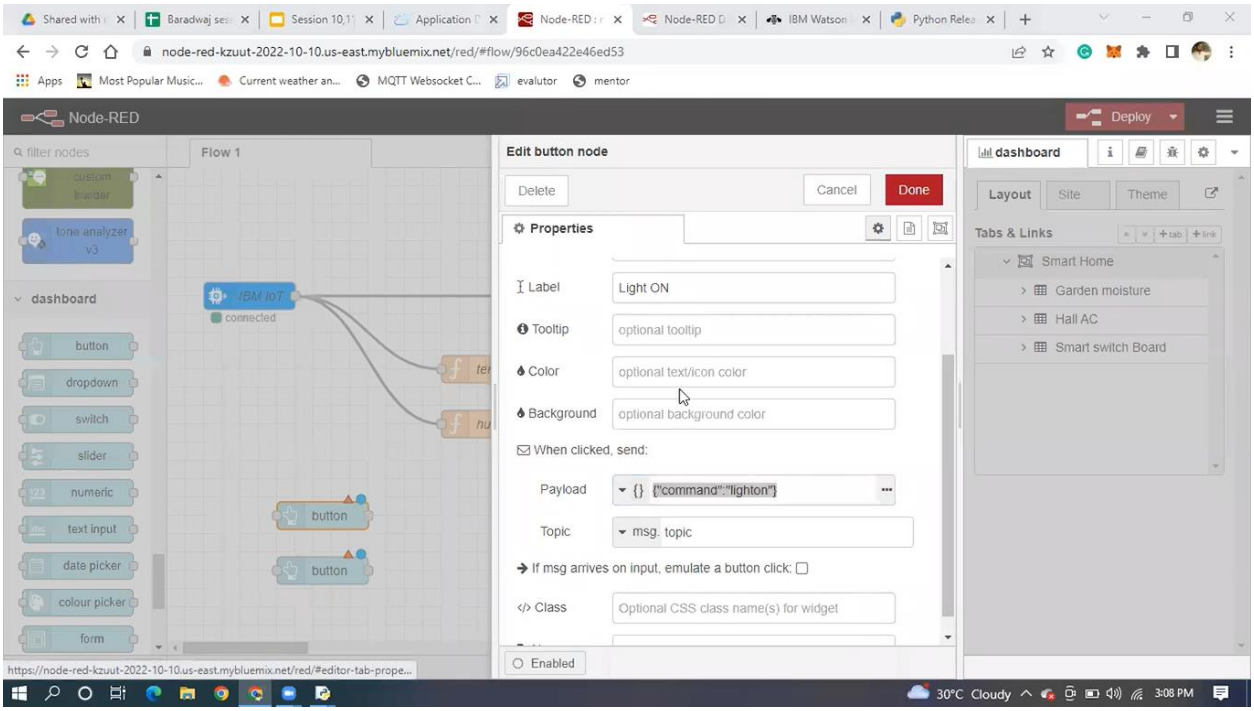
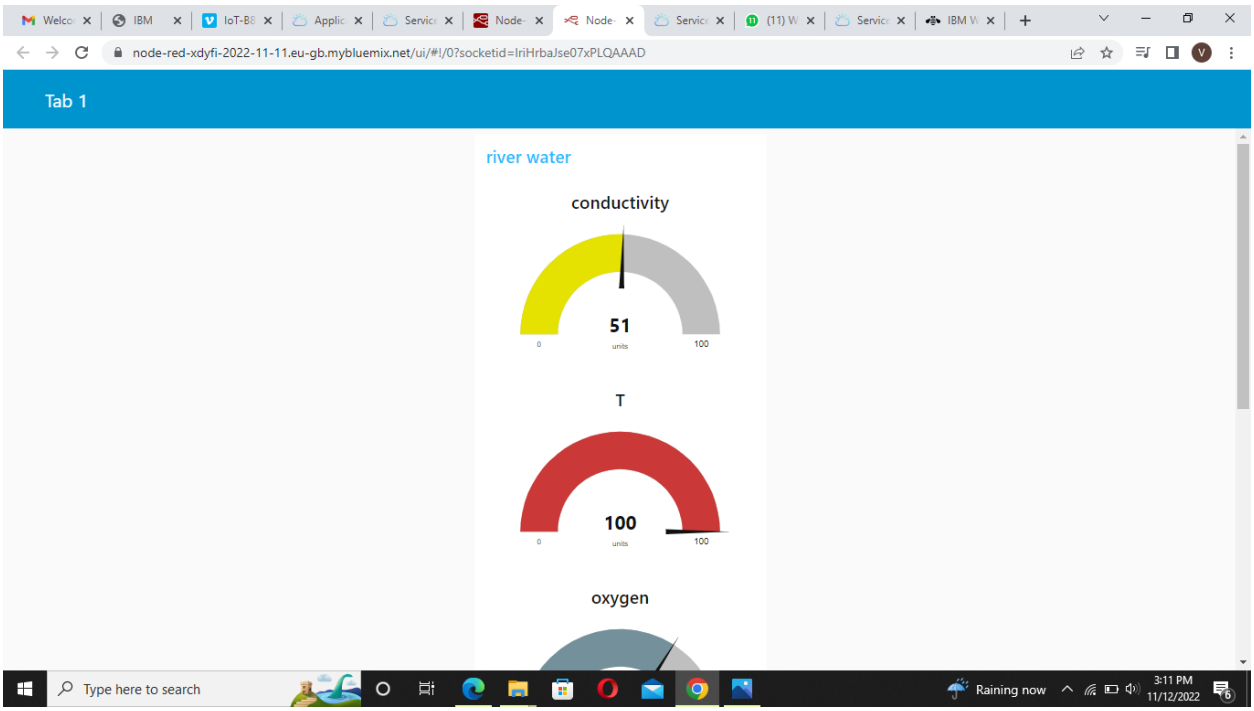


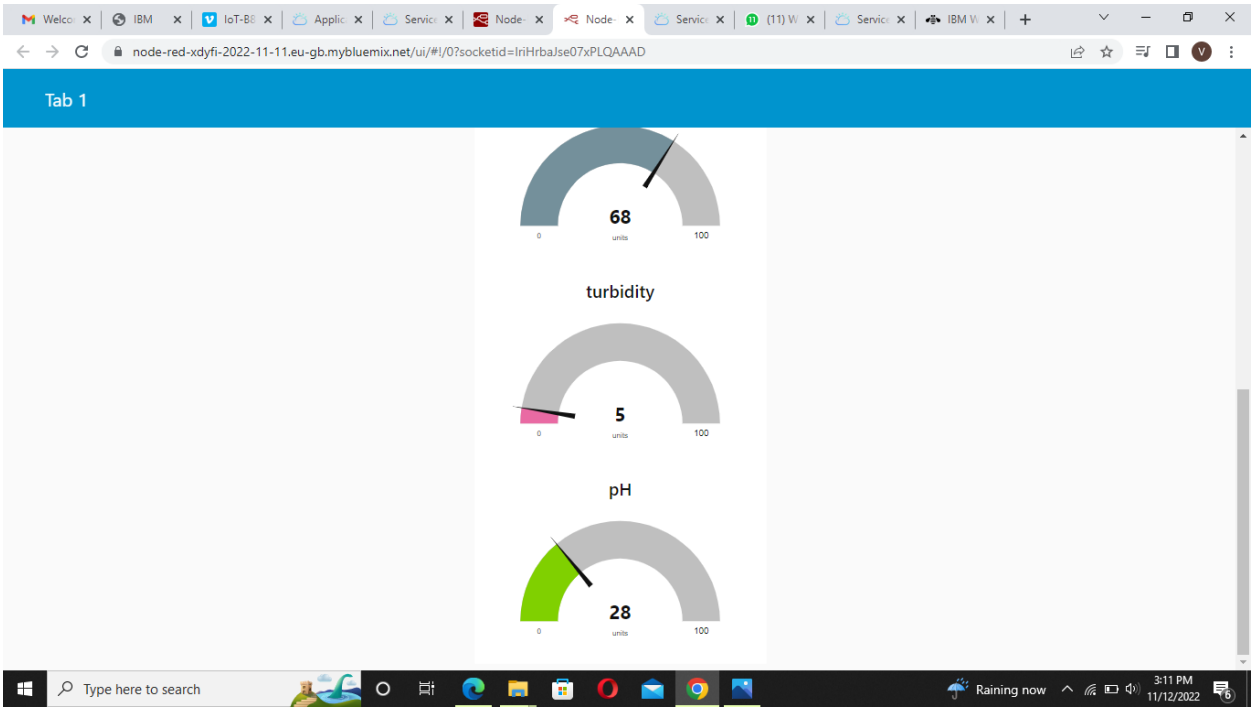

node-red-xdyfi-2022-11-11.eu-gb.mybluemix.net/red/#flow/9d96f14f11d72727
Node-RED
Deploy
filter nodes
Flow 1
common
function
network
input
Watson IoT
Ibmiot In
output
sequence
parser
storage
IBM Watson
dashboard
IBM IoT
connected
msg payload
debug
all nodes
all
12/11/2022, 14:29:30 node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/19141/evt/event_1/fmt/json : msg.payload : Object
{ pH: 42, conductivity: 37, T: 42, oxygen: 11, turbidity: 28 }
12/11/2022, 14:29:53 node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/19141/evt/event_1/fmt/json : msg.payload : Object
{ pH: 70, conductivity: 26, T: 18, oxygen: 21, turbidity: 19 }
12/11/2022, 14:30:55 node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/19141/evt/event_1/fmt/json : msg.payload : Object
{ pH: 48, conductivity: 4, T: 38, oxygen: 63, turbidity: 49 }
12/11/2022, 14:31:55 node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/19141/evt/event_1/fmt/json : msg.payload : Object
{ pH: 88, conductivity: 60, T: 44, oxygen: 8, turbidity: 48 }
12/11/2022, 14:32:55 node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/19141/evt/event_1/fmt/json : msg.payload : Object
Type here to search
Raining now
33% remaining


node-red-xdyfi-2022-11-11.eu-gb.mybluemix.net/red/#flow/9d96f14f11d72727
Node-RED
Deploy
filter nodes
Flow 1
dropdown
switch
slider
numeric
text input
date picker
colour picker
form
text
gauge
chart
audio out
notification
ui control
IBM IoT
connected
msg.payload
pH
conductivity
T
oxygen
turbidity
dashboard
Layout
Site
Theme
Tabs & Links
Tab 1
river water quality monitorir
Group 2
There is 1 widget not in a group. Click here to create the missing groups
Type here to search
Raining now
3:13 PM
11/12/2022


Node-RED
Deploy
Flow 1
Edit ibmiot out node
Delete
Cancel
Done
Properties
Authentication
API Key
API Key
api key
Output Type
Device Command
Device Type
abcd
Device Id
1234
Command Type
cmd
Format
json
Data
data
QoS
0
Enabled
dashboard
Layout
Site
Theme
Tabs & Links
Smart Home
Garden moisture
Hall AC
Smart switch Board
input
output
sequence
IBM IoT
connected
Light on
Light off
30°C Cloudy
3:10 PM


Node-RED
Deploy
Flow 1
Edit button node
Delete
Cancel
Done
Properties
Label
Light ON
Tooltip
optional tooltip
Color
optional text/icon color
Background
optional background color
When clicked, send:
Payload
{"command":"lighton"}
Topic
msg. topic
If msg arrives on input, emulate a button click:
Class
Optional CSS class name(s) for widget
Enabled
dashboard
Layout
Site
Theme
Tabs & Links
Smart Home
Garden moisture
Hall AC
Smart switch Board
IBM IoT
connected
button
button
30°C Cloudy
3:08 PM


node-red-xdyfi-2022-11-11.eu-gb.mybluemix.net/ui/#!/0?socketid=lriHrbaJse07xPLQAAAD
Tab 1
river water
conductivity
51
0
units
100
T
100
0
units
100
oxygen
Type here to search
Raining now
3:11 PM
11/12/2022


node-red-xdyfi-2022-11-11.eu-gb.mybluemix.net/ui/#!/0?socketid=lriHrbaJse07xPLQAAAD
Tab 1
68
0
units
100
turbidity
5
0
units
100
pH
28
0
units
100
Type here to search
Raining now
3:11 PM
11/12/2022