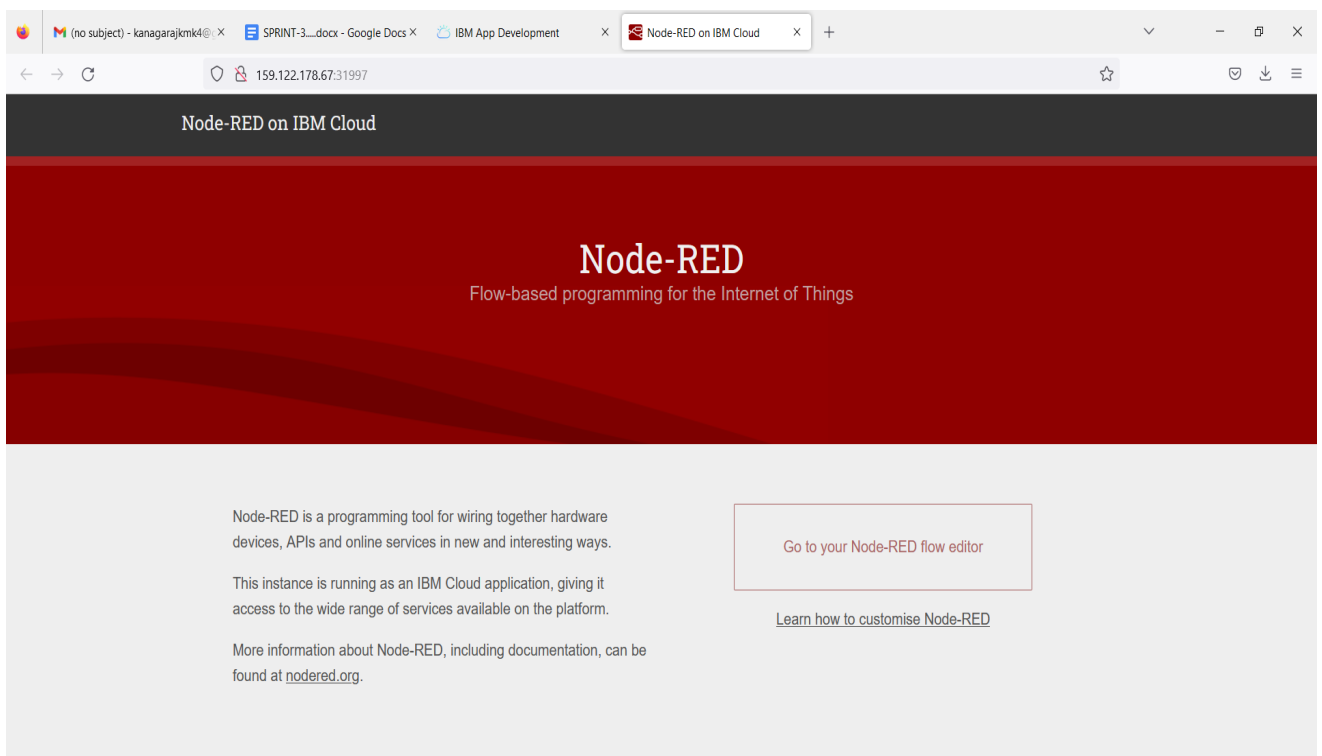


## SPRINT-3

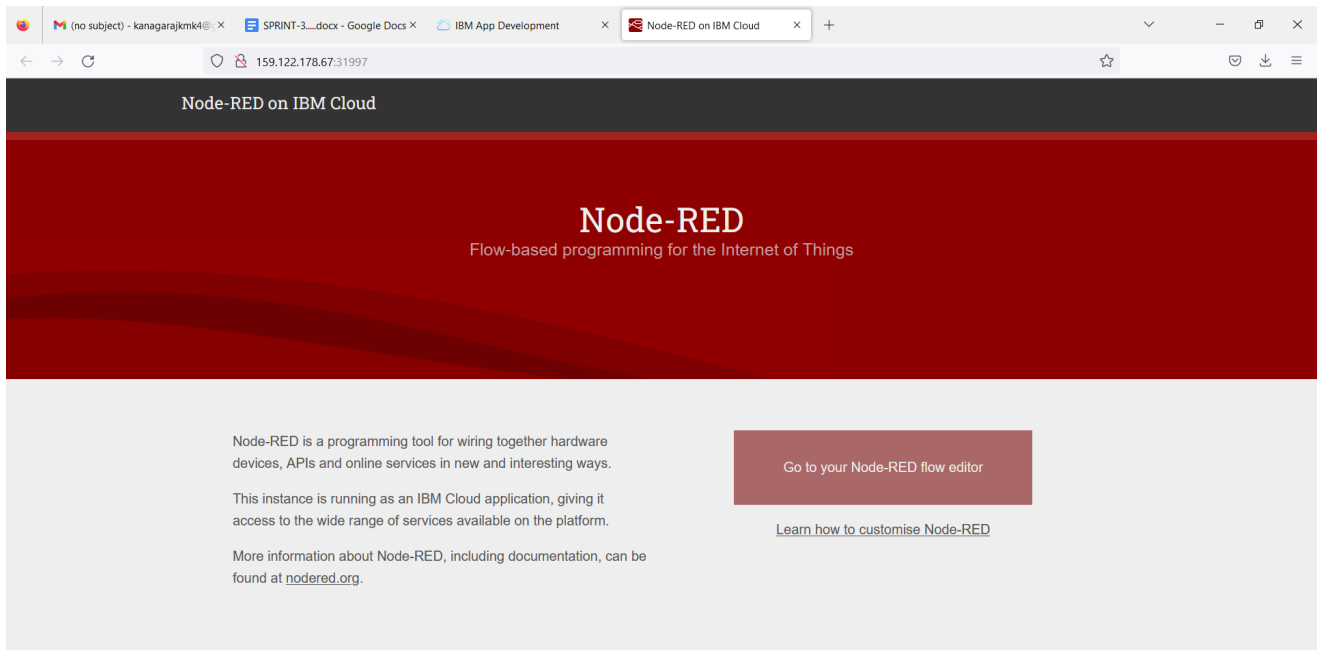
<b>Team Id</b>	<b>PNT2022TMID16477</b>
<b>Project Name</b>	<b>Smart Farmer-IoT enabled smart farming application</b>
<b>TEAM</b>	<b>KANAGARAJ.P(TL)</b> <b>AKASH.R(TM)</b> <b>MANOJKUMAR.R(TM)</b> <b>MOUNIESH.M.K(TM)</b>

## NODE -RED FLOW:

### Node Red Login:

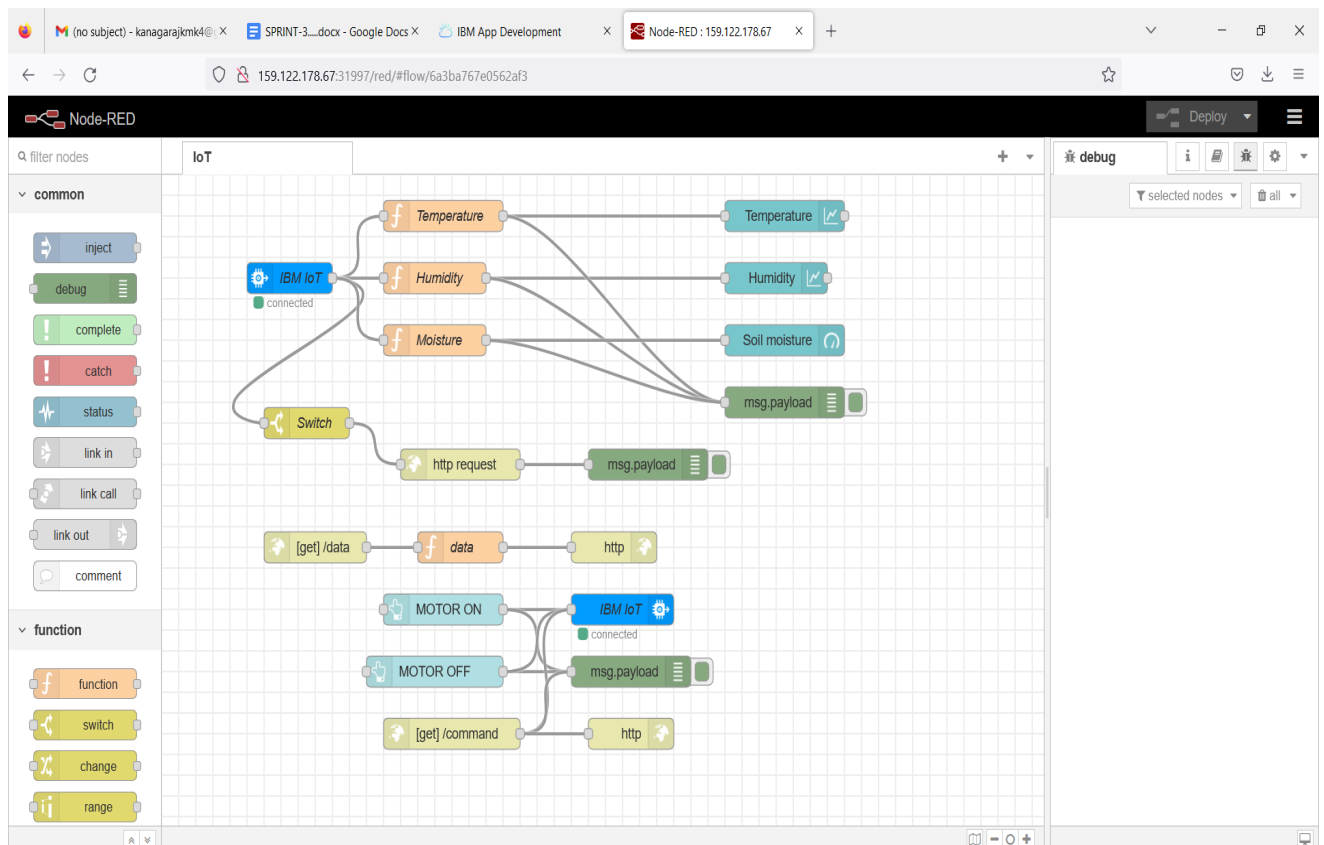


## Click the Go to your Node-Red flow editor:



159.122.178.67:31997/red/

## Creating the Project Flow:



## CONFIGURE THE NODE WITH CREDENTIALS:

The screenshot shows the Node-RED web interface in a browser. The main workspace displays a flow with an 'IBM IoT' node connected to 'Temperature', 'Humidity', and 'Moisture' function nodes. The 'Edit ibmiot in node' sidebar is open, showing the configuration for the 'IBM IoT' node. The 'Authentication' is set to 'API Key', and the 'API Key' is 'IoT IN'. The 'Input Type' is 'Device Event'. The 'Device Type' is 'All or +'. The 'Device Id' is 'device id e.g. ab12cd231a21'. The 'Event' is 'All or +'. The 'Format' is 'All or json'. The 'QoS' is '0'. The 'Name' is 'IBM IoT' and the 'Service' is 'registered'. A yellow warning box at the bottom of the sidebar states: 'Use the Input Type property to configure this node to receive Events sent by IoT Devices, Commands sent to IoT Devices, Status Messages'. The 'debug' console on the right shows no messages.

## NODE-RED WORKING:

The screenshot shows the Node-RED web interface with the same flow as the previous image. The 'IBM IoT' node is now connected to 'temp', 'Humid', and 'moist' function nodes, which are connected to 'Temperature Gauge', 'Humidity', and 'Moisture' nodes respectively. The 'debug' console on the right shows a series of messages received from the IoT node, including 'Temp', 'Humid', and 'Moist' data points. The messages are timestamped and include the payload 'number'.

# IBM WATSON FLOW:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar and an 'Add Device' button are also present. The main content area displays a table of devices. Device 12345 is selected, and its details are shown in a sub-view. The sub-view includes tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a list of events with columns for 'Event', 'Value', 'Format', and 'Last Received'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Disconnected	abcd	Device	Nov 18, 2022 12:03 AM	
12345	Connected	abcd	Device	Nov 17, 2022 11:43 PM	

Event	Value	Format	Last Received
IoTSensor	{"temp":96,"Humid":92,"moist":142}	json	a few seconds ago
IoTSensor	{"temp":98,"Humid":79,"moist":118}	json	a few seconds ago
IoTSensor	{"temp":109,"Humid":79,"moist":117}	json	a few seconds ago
IoTSensor	{"temp":99,"Humid":72,"moist":167}	json	a few seconds ago
IoTSensor	{"temp":105,"Humid":93,"moist":108}	json	a few seconds ago

**Our Node-Red flow is working successfully...**





