

CREATE A NODE-RED SERVICE

DATE	18 November 2022
TEAM ID	PNT2022TMID04755
PROJECT NAME	SmartFarmer – IOT Enabled Smart Farming

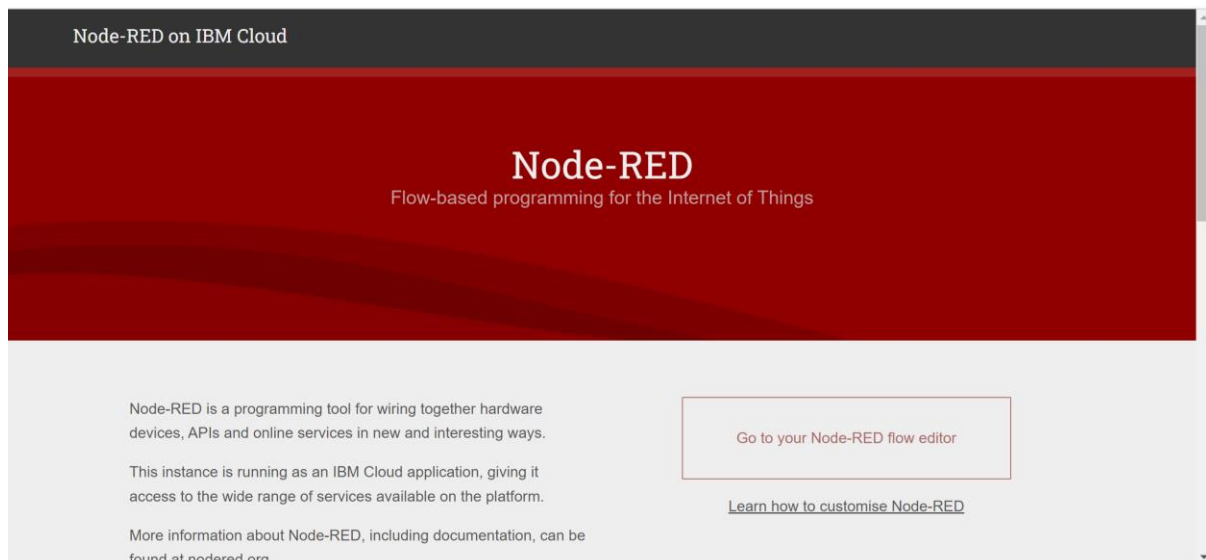
SEARCH FOR NODE RED IN IBM CLOUD:

The screenshot shows the IBM Cloud Catalog interface. At the top, there's a search bar and navigation links like 'Catalog', 'Manage', and 'SUBIKSHNA V's Account'. The main heading is 'Node-RED'. Below it, there's a 'Create' button. The 'About' tab is selected, showing details about the starter kit. The 'Overview' section describes the pre-configured application and its deployment options. A list of features is provided: 'Generate an application with Node-RED', 'Generate an application with files for deploying to Cloud Foundry or a DevOps Pipeline', and 'Connect to provisioned services'. The 'What's included?' section lists 'Cloudant' as a free-to-start service. Links for 'View docs' and 'View API reference' are also present.

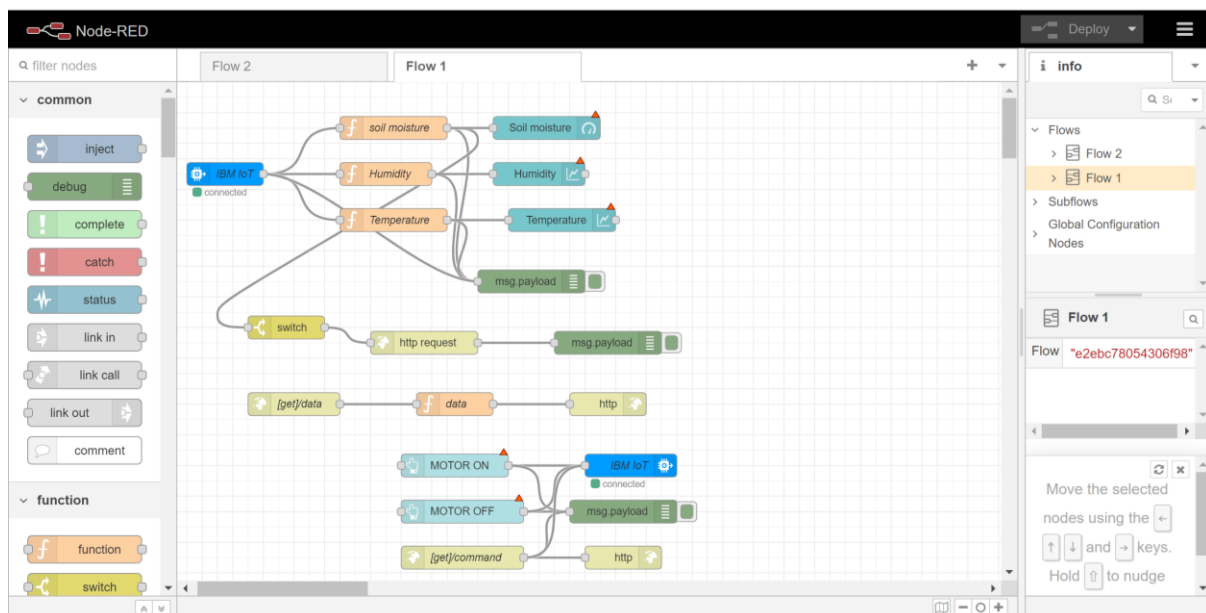
URL FOR NODE RED:

The screenshot shows the IBM Cloud Resource list page for a specific Node-RED instance. The title is 'Node RED DSMZK 2022-11-15'. The 'Details' section lists the App URL as 'http://159.122.187.178:30725', the Source as 'https://us-south.git.cloud.ibm.com/subikshnav.19ece/NodeRE...', the Resource group as 'Default', the Deployment target as 'Kube/Helm', and the Created date as '11/15/2022'. The 'Services' section shows 'Cloudant' as a service. The 'Deployment Automation' section lists the Name as 'NodeREDDSMZK2022-11-15', the Location as 'Dallas', and the Tool integrations. The 'Delivery Pipelines' section shows two pipelines: 'ci-pipeline' with a 'Success' status, and 'pr-pipeline' with a 'No stages detected' status. An 'ASK A QUESTION' button is visible on the right side.

HOME PAGE OF NODE RED:



FLOW FOR CHECKING TEMPERATURE, HUMIDITY, MOISTURE:



JSON CODE FOR HUMIDITY:

The screenshot shows the Node-RED interface with the 'Edit function node' dialog open for a node named 'Humidity'. The node is connected to an 'IBM IoT' node and a 'switch' node. The function code is as follows:

```
1 global.set('hum',msg.payload.humidity)
2 msg.payload=msg.payload.humidity
3 return msg;
```

The right sidebar shows the 'info' panel with the 'Humidity' node selected. The node type is 'function' and the node ID is '609aed02e8d0438b'.

API KEY FOR THE IBM IOT OUT:

The screenshot shows the Node-RED interface with the 'Edit ibmiot out node' dialog open for a node named 'IBM IoT'. The node is connected to an 'IBM IoT' node and a 'switch' node. The configuration is as follows:

- Authentication: API Key
- API Key: IBMIot
- Output Type: Device Command
- Device Type: ESP32_Controller
- Device Id: BME280_Sensor
- Command Type: cmd
- Format: json
- Data: data
- QoS: 0

The right sidebar shows the 'info' panel with the 'IBM IoT' node selected. The node type is 'ibmiot out' and the node ID is '7bd24e53ffc4caa9'.