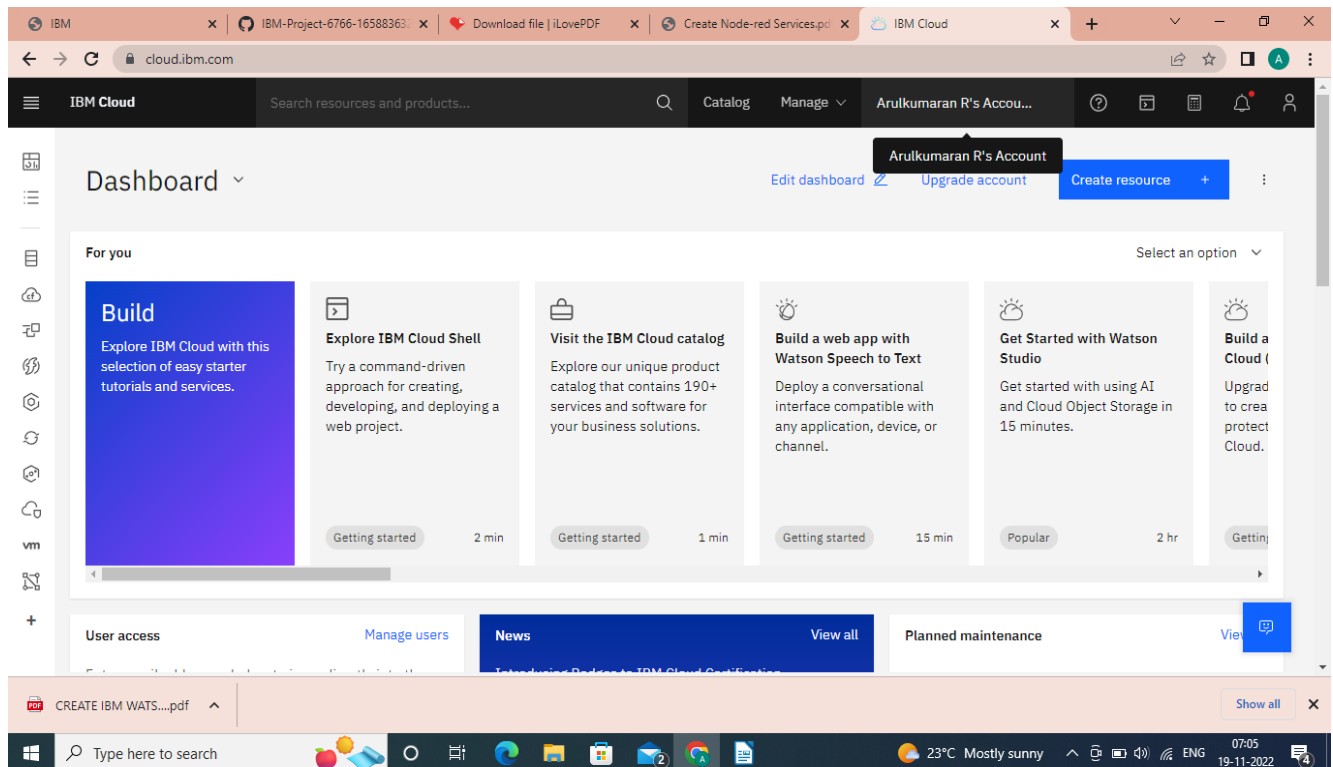


Create Node-RED Service

TEAM ID	PNT2022TMID38782
PROJECT TITLE	Real-Time River Water Quality Monitoring and Control System
TEAM LEADER	Arulkumaran R
TEAM MEMBER 1	Ezhilarasan S
TEAM MEMBER 2	Harish K
TEAM MEMBER 3	Guhan I



Create Node-RED Services

IBM Cloud Foundry Public is deprecated. [Learn more](#)

IBM Cloud API key

[Copy](#) [New](#)

Number of instances

Memory allocation per instance

64 MB 2000 MB

Region Organization Space

Sydney arulkumaran arul

Host Domain

node-red-ftgtxp-2022-11-16 au-syd.mybluemix.net

node-red-ftgtxp-20...zip [Show all](#)

IBM Cloud Foundry Orgs / arulkumaran

Spaces Users Domains Info

[Add a space](#)

Name	Region	ID	Manager	Date Created	Actions
arul	Sydney	3df58a4a-7c2e-4b00-981d-5332cc34ddd2	✓	11/16/2022	⋮

node-red-ftgtxp-20...zip [Show all](#)

Create Node-RED Services

Runtime

Search resources and products...

Connections
Logs
API Management
Autoscaling

Memory and instances Environment variables SSH

Instances [Edit](#)

Health
100%
1/1 instance(s) are running

Instances
1 - +

MB memory per instance
0 2048 256

Runtime
Node.js
256
Total MB allocation
1.75 GB still available
Free Used

Status	Instance	CPU	Memory	Disk	Last started
Running	0	0.2%	133.6 MB / 256 MB	335.1 MB / 1 GB	Nov 16, 2022, 10:59:56 PM

Runtime cost
Current and estimated cost excludes connected services.

\$0.00 **\$0.00**
Current charges for billing period Estimated total for billing period
Nov 1, 2022 - Nov 30, 2022

[Full details](#)

Connections (1)
[node-red-wrsqn-2022--cloudant-1667462048652-79450](#)
[Create connection](#)

Continuous delivery
You enabled continuous delivery and have a toolchain. With your toolchain, you can automate builds, tests, deployments, and more. [View docs](#)

Activity feed
started Node RED FGTXP 2022-11-16 app
Nov 16, 2022, 10:57:39 PM | arulkumaravp@gmail.com
updated Node RED FGTXP 2022-11-16 app
changed routes
Nov 16, 2022, 10:57:23 PM | arulkumaravp@gmail.com
created Node RED FGTXP 2022-11-16 app
Nov 16, 2022, 10:57:22 PM | arulkumaravp@gmail.com

Create Node-RED Services

The screenshot shows the IBM Cloud 'Resource list' page. The top navigation bar includes the IBM Cloud logo, a search bar, and tabs for 'Catalog', 'Manage', and 'Arulkumaran R's Account'. A 'Create resource' button is visible in the top right. The main content area displays a table of resources with columns: Name, Group, Location, Product, Status, and Tags. The table is filtered by 'Compute (1)'. The first entry is 'Node RED FGTXP 2022-11-16' with a status of 'Started'. Below this, there are sections for 'Containers (0)', 'Networking (0)', 'Storage (0)', 'AI / Machine Learning (0)', 'Analytics (0)', 'Blockchain (0)', and 'Databases (2)'. The 'Databases' section shows two entries: 'node-red-wrsqn-2022--cloudant-...' with status 'Active' and 'node-red-wrsqn-2022--cloudant-...' with status 'Provisioned'.

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
^ Compute (1)					
Node RED FGTXP 2022-11-16	arulkumaran / arul	Sydney	Node.js	Started	-
^ Containers (0)					
^ Networking (0)					
^ Storage (0)					
^ AI / Machine Learning (0)					
^ Analytics (0)					
^ Blockchain (0)					
^ Databases (2)					
node-red-wrsqn-2022--cloudant-...	Default	London	Cloudant	Active	-
node-red-wrsqn-2022--cloudant-...	arulkumaran / arul	Sydney	Cloudant	Provisioned	-

The screenshot shows the 'Node-RED on IBM Cloud' landing page. The header is 'Node-RED on IBM Cloud'. The main content area has a large red banner with the text 'Node-RED' and 'Flow-based programming for the Internet of Things'. Below the banner, there is a section with text: 'Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform. More information about Node-RED, including documentation, can be found at nodered.org.' To the right of this text is a button that says 'Go to your Node-RED flow editor' and a link that says 'Learn how to customise Node-RED'. The bottom of the page has a footer with a 'CREATE IBM WATS...pdf' button and a 'Show all' button.

Node-RED on IBM Cloud

Node-RED

Flow-based programming for the Internet of Things

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform. More information about Node-RED, including documentation, can be found at nodered.org.

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

[CREATE IBM WATS...pdf](#) [Show all](#)

Create Node-RED Services

The screenshot displays the Node-RED web interface in a browser. The flow is named "First_one" and is located at the URL `node-red-ftgxp-2022-11-16-au-syd.mybluemix.net/red/#flow/f142913c44381f00`. The flow consists of the following nodes:

- Input_node**: A blue inject node.
- IBM IoT**: A blue node with a green "connected" status.
- temp**: An orange function node.
- humidity**: An orange function node.
- Output_node1**: A green output node.

The flow logic is as follows: The **Input_node** and **IBM IoT** node both connect to the **temp** function node. The **temp** function node and the **humidity** function node both connect to the **Output_node1**.

The **debug** console on the right shows the following messages:

```
msg.payload : Object
  { temperature: 90, humidity: 7 }

11/19/2022, 7:16:27 AM node: Output_node1
iot-2/type/ibm_device/id/aru_143/evt/event_1/fmt/json :
msg.payload : number
90

11/19/2022, 7:16:27 AM node: Output_node1
iot-2/type/ibm_device/id/aru_143/evt/event_1/fmt/json :
msg.payload : number
7

11/19/2022, 7:16:28 AM node: Output_node1
iot-2/type/ibm_device/id/aru_143/evt/event_1/fmt/json :
msg.payload : Object
  { temperature: 89, humidity: 7 }

11/19/2022, 7:16:28 AM node: Output_node1
iot-2/type/ibm_device/id/aru_143/evt/event_1/fmt/json :
msg.payload : number
89

11/19/2022, 7:16:28 AM node: Output_node1
iot-2/type/ibm_device/id/aru_143/evt/event_1/fmt/json :
msg.payload : number
7
```