

Date	09-11-2022
Team ID	PNT2022TMID10209
Project name	Signs with smart connectivity for better road safety
Maximum marks	20 marks

US-I : Configure the connection security and create API keys that are used in the Node-red service for accessing the IBM IOT platform

The screenshot displays the IBM Watson IoT Platform interface. At the top, the header shows 'IBM Watson IoT Platform' and a user profile with email '19106124@hict.ac.in' and ID 'yjcwk7'. The left sidebar contains navigation icons. The main content area features a confirmation message: 'The API key has been added.' Below this, a warning states: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the API key to generate a new authentication token.'

The interface is divided into two columns: 'Generated Details' and 'API Key Information'.

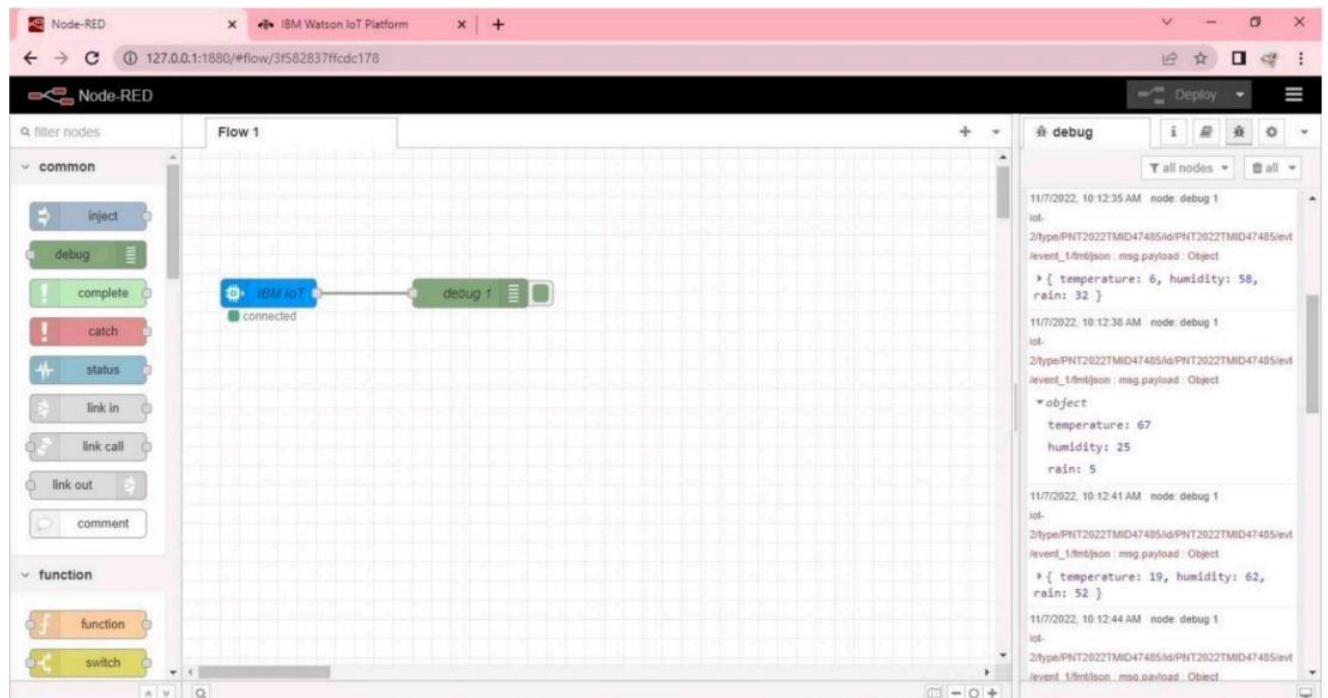
Generated Details		API Key Information	
API Key	a-yjcwk7-4icwkatcco	Description	-
Authentication Token	jQI-b5yG7ksXU7aDXI	Role	Standard Application
		Expires	Never

A warning icon and text are present: 'Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must reregister the API to generate a new token.'

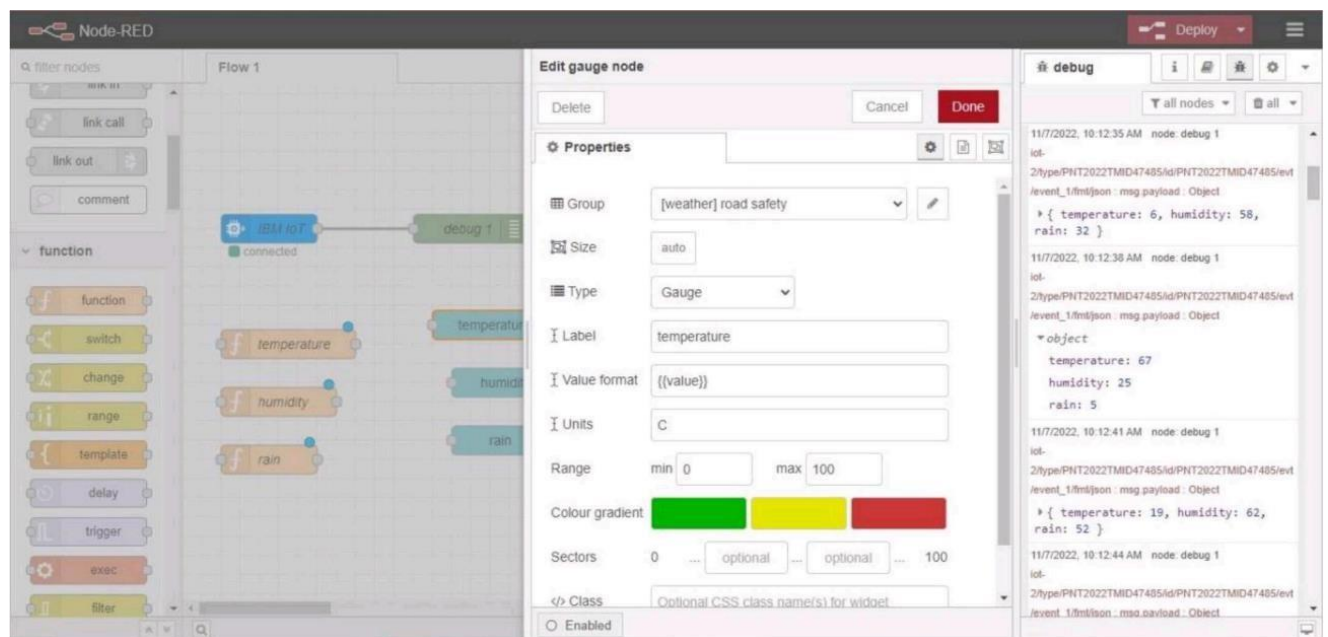
At the bottom right of the message box are three buttons: 'View API Key', 'Add Another', and 'Close'.

Below the message box is a section titled 'Browse API Keys' with a search bar labeled 'Type the app description to search for' and a magnifying glass icon. Below this, a small text line reads: 'This table shows a summary of the API keys that have been added for the organization. It can be filtered.'

US-2 :Create a Node-red service



US-3: Monitoring the sensor values- temperature, humidity, rain .



Node-RED

Flow 1

filter nodes

link call

link out

comment

function

function

switch

change

range

template

delay

trigger

exec

filter

IBM IoT

connected

debug 1

temperature

humidity

rain

temperature

humidity

rain

Edit gauge node

Delete

Cancel

Done

Properties

Group

[weather] road safety

Size

auto

Type

Gauge

Label

humidity

Value format

{{value}}

Units

units

Range

min 0 max 100

Colour gradient

Sectors

0 optional optional 100

Class

Optional CSS class name(s) for widget

Enabled

debug

all nodes

all

11/7/2022, 10:12:35 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object

{ temperature: 6, humidity: 58, rain: 32 }

11/7/2022, 10:12:38 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object

object

temperature: 67

humidity: 25

rain: 5

11/7/2022, 10:12:41 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object

{ temperature: 19, humidity: 62, rain: 52 }

11/7/2022, 10:12:44 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object

Node-RED

Flow 1

filter nodes

link call

link out

comment

function

function

switch

change

range

template

delay

trigger

exec

filter

IBM IoT

connected

debug 1

temperature

humidity

rain

temperature

humidity

rain

Edit gauge node

Delete

Cancel

Done

Properties

Group

[weather] road safety

Size

auto

Type

Gauge

Label

rain

Value format

{{value}}

Units

units

Range

min 0 max 100

Colour gradient

Sectors

0 optional optional 100

Class

Optional CSS class name(s) for widget

Enabled

debug

all nodes

all

11/7/2022, 10:12:35 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object

{ temperature: 6, humidity: 58, rain: 32 }

11/7/2022, 10:12:38 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object

object

temperature: 67

humidity: 25

rain: 5

11/7/2022, 10:12:41 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object

{ temperature: 19, humidity: 62, rain: 52 }

11/7/2022, 10:12:44 AM node debug 1

iot-

2/type/PNT2022TMD47485Id/PNT2022TMD47485/evt

/event_1/mqttjson : msg.payload : Object