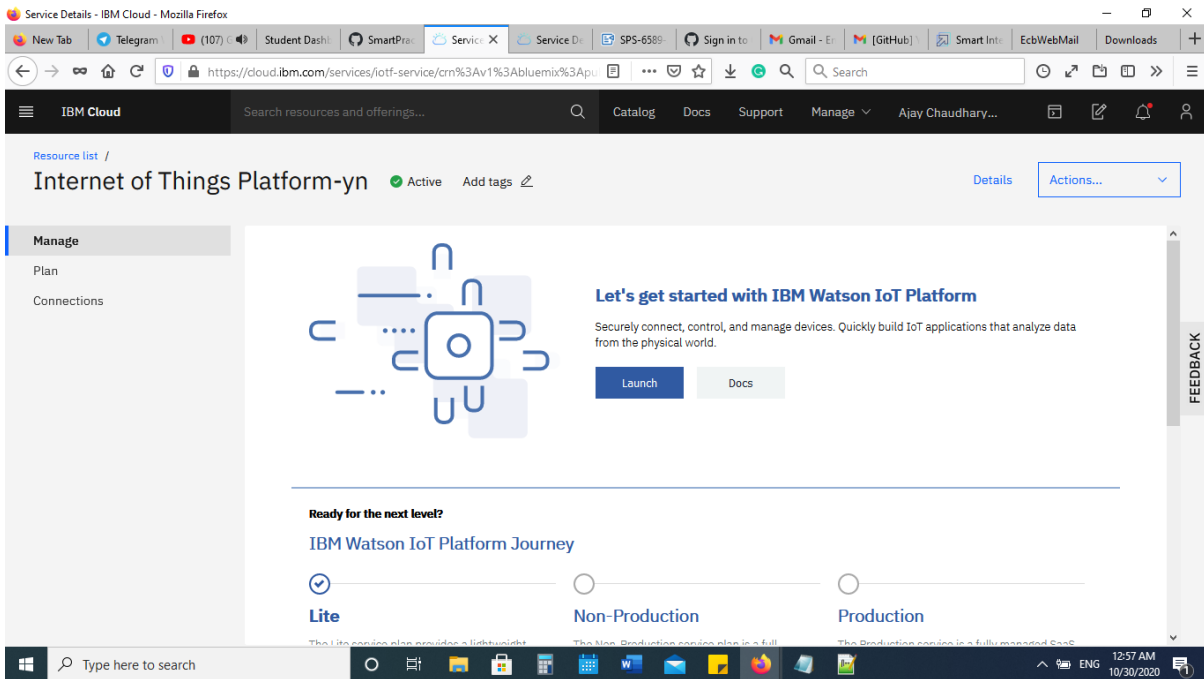


Project Name: Analyze IoT sensor data with machine learning

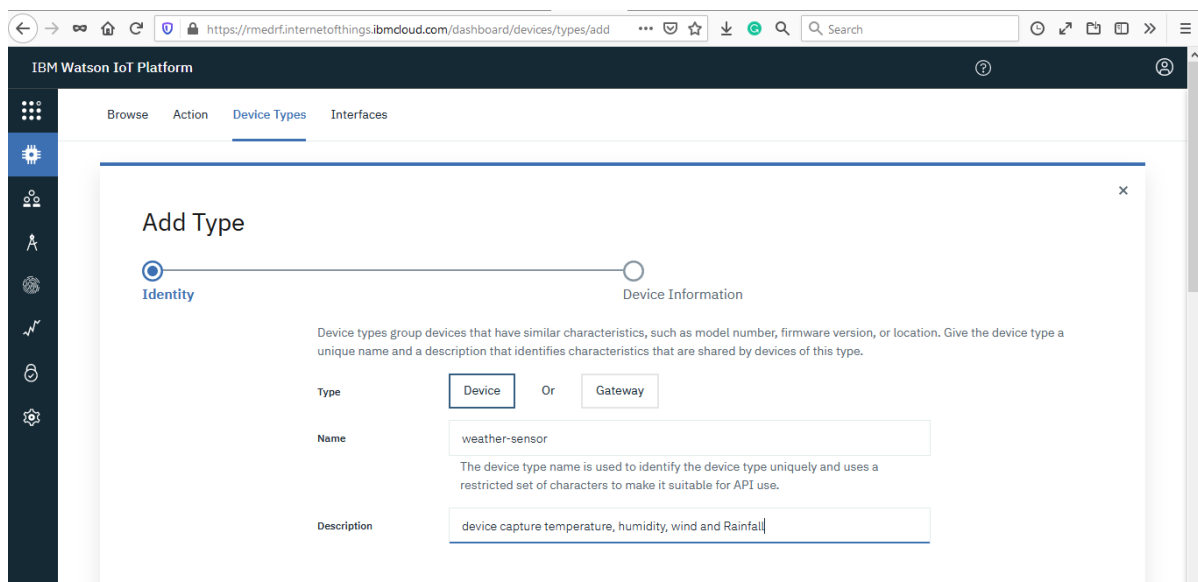
Name : Ajay Chaudhary

Module: Part 1: Stream Sensor Data

Sub module: Create IBM IOT Platform Service



Sub module: Register and create device Type



Authentication token are encrypted before we store them.

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← Back

Device Drilldown - **12345**

Device Credentials

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID	rmedrf
Device Type	weather-sensor
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	

Sub module: Send Simulated data to IBM IoT Platform

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device +

Device ID	Status	Device Type	Class ID	Date Added
12345	Connected	weather-sensor	Device	

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
iotsensor	{"d":{"name":"iot12345","temperature":23,"humi...	json	a few seconds ago
iotsensor	{"d":{"name":"iot12345","temperature":23,"humi...	json	a few seconds ago
iotsensor	{"d":{"name":"iot12345","temperature":23,"humi...	json	a few seconds ago
iotsensor	{"d":{"name":"iot12345","temperature":23,"humi...	json	a few seconds ago
iotsensor	{"d":{"name":"iot12345","temperature":23,"humi...	json	a few seconds ago

Sub module: Send Simulated data to IBM IoT Platform using device simulator

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
12345	Disconnected	weather-sensor

Items per page 50 | 1-1 of 1 item

Device Type: weather-sensor

Event type name event_1 Send

Schedule 30 Every Minute

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

```
0 {
1   "temperature": random(0, 100),
2   "humidity": random(30, 100),
3   "wind": random(0, 30),
4   "Rainfall": random(30, 100)
5 }
6
```

Cancel Save

IBM Watson IoT Platform

Simulations

Device Type: weather-sensor

1 Event

1 Device

12345

Create Simulated Device Use Registered Device

9 events sent 554 bytes sent

Browse Action Device Types Interfaces

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
iot12345	Disconnected	weather-sensor

Items per page 50 | 1-1 of 1 item

IBM Watson IoT Platform

Event Payload

Event Name: event_1

Time Received

```
1 {
2   "temperature": 89,
3   "humidity": 80,
4   "wind": 19,
5   "Rainfall": 47
6 }
```

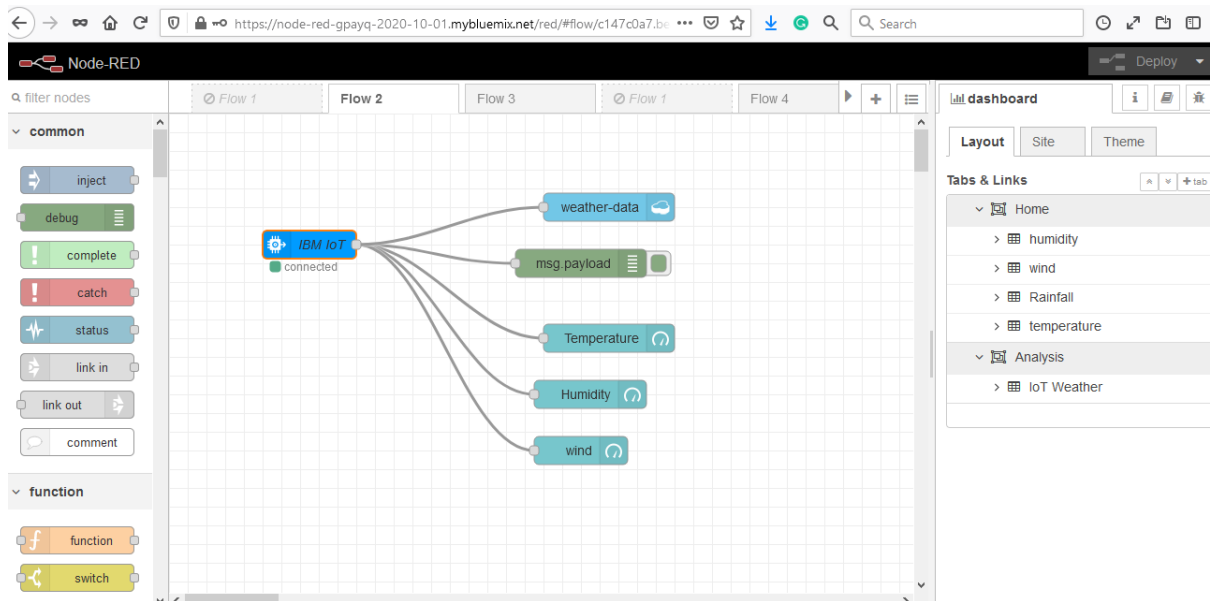
24 AM

The recent events listed:

Event	Value
event_1	{ "te
event_1	{ "te
event_1	{ "te
event_1	{ "te
event_1	{ "temperature":91,"humidity":92,"wind":9,"Rainf...

1 Simulation running

Node red Integration:



Results: Showing simulated data on gauge

