

**CREATE AND CONFIGURE IBM
CLOUD SERVICES**

**IBM WATSON IOT PLATFORM
AND DEVICE**

TEAM ID	PNT2022TMID41301
PROJECT NAME	Real-Time River Water Quality Monitoring and Control System

IBM Watson IoT Platform

- IBM Watson IoT platform acts as the mediator to connect the web application to IoT device, so create the IBM Watson IoT platform.
- In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.
- Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.

Service | Chat with | IBM-EPE | Round | IoT-B7-1 | IBM App | IBM Clo | W saranya | Service | IBM Wa

55i2ca.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Device ID	Status	Device Name
1234	Disconnected	abcd
2103	Disconnected	sara

Identity Device Information Recent Events

The recent events listed show the live stream of data that

Event	Value
-------	-------

Device Type: sara

Events 1 [New event type](#)

Event type name: ultrasonic [Send](#) [Delete](#)

Schedule: 1 Every Minute

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

```
0 {
1   "randomNumber": random(0, 100),
2   "distance": random(50, 150)
3 }
4
```

[Upload a CSV file](#)

Service | Chat with | IBM-EPE | Round | IoT-B7-1 | IBM App | IBM Clo | W saranya | Service | IBM Wa

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IBM Watson IoT Platform

Browse Action Device Types Interfaces

Device ID	Status	Device Name
1234	Disconnected	abcd
2103	Disconnected	sara

Identity Device Information Recent Events

The recent events listed show the live stream of data that

Event	Value
ultrasonic	{"randomNumber":97,"distance":120}
ultrasonic	{"randomNumber":86,"distance":77}
ultrasonic	{"randomNumber":41,"distance":130}
ultrasonic	{"randomNumber":27,"distance":140}

Device Type: sara

Event type name: ultrasonic [Send](#) [Delete](#)

Schedule: 1 Every Minute

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

```
0 {
1   "randomNumber": random(0, 100),
2   "distance": random(50, 150)
3 }
4
```

[Upload a CSV file](#)

[Cancel](#) [Save](#)

IBM Watson IoT Platform

613519106046@smartinternz.com
ID: 55i2ca

BrowseActionDevice TypesInterfaces

Add Device

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID
12345678	Connected	riverwater	Device

IdentityDevice InformationRecent EventsStateLogs

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

Event	Value	Format	Last Received
espwatermo...	{"temp":36,"turb":32,"ph":3,"waterphstatus":"lo...	json	a few seconds ago
espwatermo...	{"temp":20,"turb":14,"ph":7,"waterphstatus":"hi...	json	a few seconds ago
espwatermo...	{"temp":32,"turb":43,"ph":8,"waterphstatus":"hi...	json	a few seconds ago
espwatermo...	{"temp":50,"turb":54,"ph":7,"waterphstatus":"hi...	json	a few seconds ago
espwatermo...	{"temp":24,"turb":64,"ph":3,"waterphstatus":"lo...	json	a few seconds ago

1 Simulation running

IBM Watson IoT Platform

613519106046@smartinternz.com
ID: 55i2ca

riverwater

Add New CardSettings

temp

50403020100

18:5918:59:30

1 minute

temp

now

turbidity

484644

18:5918:59:30

1 minute

turb

now

ph

1086420

18:5918:59:30

1 minute

ph

now

1 Simulation running