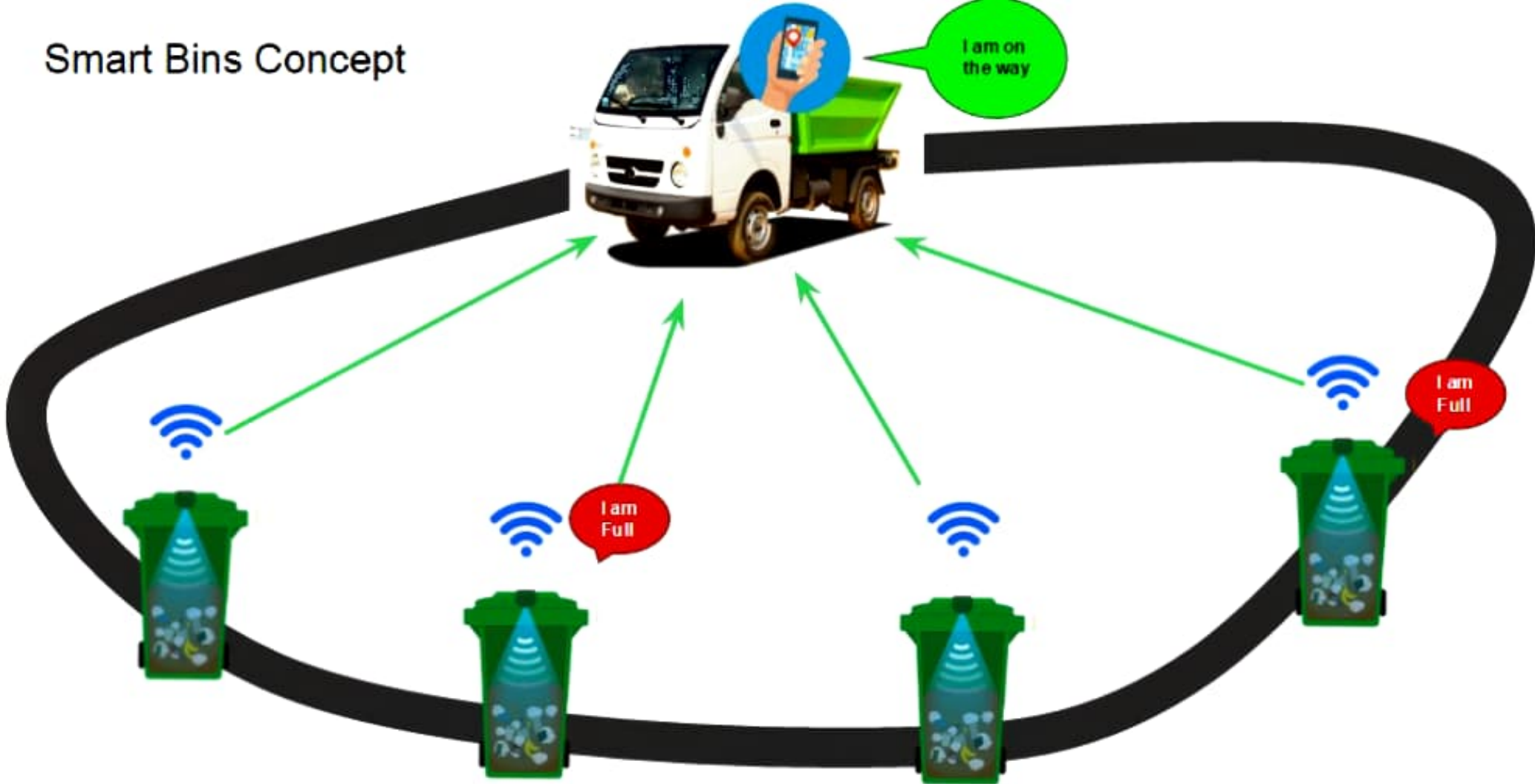


Smart Bins Concept



>		398	 Connected	garbagebin1	Device	
✓		397	 Connected	garbagebin2	Device	→ ...

Identity

Device Information

Recent Events

State

Logs



Device ID	397
Device Type	garbagebin2
Date Added	9 Apr 2021 22:17
Added By	19h61a0428@cvsr.ac.in
Connection Status	Connected Connection Time: 10 Apr 2021 11:58 Client Address: 223.184.8.186 SecureToken

Identity

Device Information

Recent Events

State

Logs



Device ID

398

Device Type

garbagebin1

Date Added

9 Apr 2021 22:16

Added By

19h61a0428@cvsr.ac.in

Connection Status

Connected

Connection Time: 10 Apr 2021 11:53

Client Address: 223.184.8.186 SecureToken



397



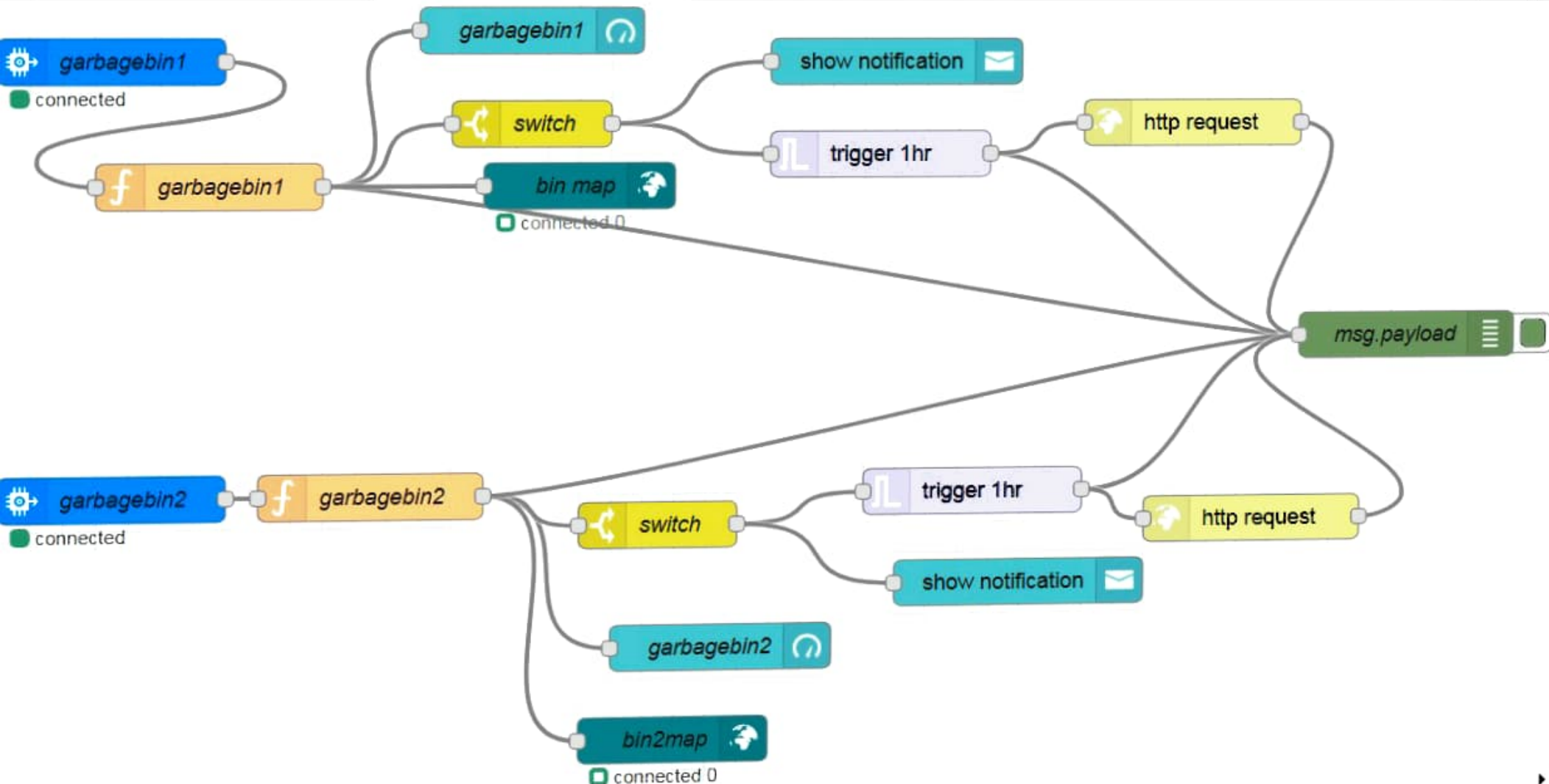
Disconnected

garbagebin2

Device

Flow 1

Flow 2



```

import sys
import ibmiotf.application
import ibmiotf.device
import random
import json

#Provide your IBM Watson Device Credentials
organization = "ud5wxj"
deviceType = "garbagebin2"
deviceId = "397"
authMethod = "token"
authToken = "Ravali@399"
# Initialize the device client.
g2=0
try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....

except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()

while True:
    g2=90

    #Send bin2 to IBM Watson
    data = {"d":{ 'iotdevice':g2 }}
    #print data
    def myOnPublishCallback():
        print ("Published iotdevice = %s" % g2, "to IBM Watson")

    success = deviceCli.publishEvent("Data", "json", data, qos=0, on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
        time.sleep(10)

# Disconnect the device and application from the cloud
deviceCli.disconnect()

```


RESTART: C:/Users/Srikanth/AppData/Local/Programs/Python/Python37-32/garbage bin 2.py

2021-04-10 12:08:57,209 ibmiotf.device.Client INFO Connected successfully: d:ud5wxj:garbagebin2:397

Published iotdevice = 90 to IBM Watson

Published iotdevice = 90 to IBM Watson

Published iotdevice = 90 to IBM Watson

Published iotdevice = 90 to IBM Watson

Published iotdevice = 90 to IBM Watson

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Published iotdevice = 90 to IBM Watson

```

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
import json

#Provide your IBM Watson Device Credentials
organization = "ud5wxj"
deviceType = "garbagebin1"
deviceId = "398"
authMethod = "token"
authToken = "Ravali@399"
# Initialize the device client.
g1=0
try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....

except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()

while True:
    g1=20
    #Send bin1 to IBM Watson
    data = {"d":{ 'iotdevice':g1 }}
    #print data
    def myOnPublishCallback():
        print ("Published iotdevice = %s" % g1, "to IBM Watson")
    success = deviceCli.publishEvent("Data", "json", data, qos=0, on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
    time.sleep(10)

# Disconnect the device and application from the cloud
deviceCli.disconnect()

```

Type "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:\Users\Srikanth\Downloads\pubsubibmcloud.py =====

2021-04-10 12:05:17,112 ibmiotf.device.Client INFO Connected successfully: d:ud5wxj:garbagebin1:398

Published iotdevice = 20 to IBM Watson

Published iotdevice = 20 to IBM Watson

Published iotdevice = 20 to IBM Watson

Published iotdevice = 20 to IBM Watson

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Published iotdevice = 20 to IBM Watson

Default

garbagebin1



garbagebin2



garbage bin 2 is full



all nodes



10/04/2021, 12:31:52 node: msg.payload

iot-2/type/garbagebin1/id/398/evt/Data/fmt/json : msg.payload : number

20

10/04/2021, 12:31:57 node: msg.payload

iot-2/type/garbagebin2/id/397/evt/Data/fmt/json : msg.payload : number

90

10/04/2021, 12:31:57 node: msg.payload

iot-2/type/garbagebin2/id/397/evt/Data/fmt/json : msg.payload : string[20]

"garbagebin 2 is full"

10/04/2021, 12:32:02 node: msg.payload

iot-2/type/garbagebin1/id/398/evt/Data/fmt/json : msg.payload : number

20

10/04/2021, 12:32:07 node: msg.payload

iot-2/type/garbagebin2/id/397/evt/Data/fmt/json : msg.payload : number

90

10/04/2021, 12:32:12 node: msg.payload

iot-2/type/garbagebin1/id/398/evt/Data/fmt/json : msg.payload : number

20

10/04/2021, 12:32:17 node: msg.payload

iot-2/type/garbagebin2/id/397/evt/Data/fmt/json : msg.payload : number

Saturday, 10 April 2021



Bin2 is full