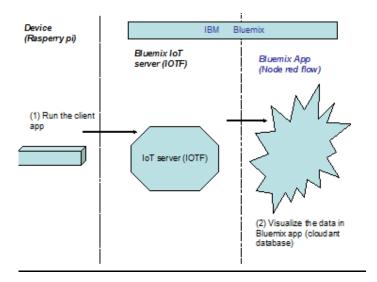
#### Quick start Lab:

#### **Device data Quick view**



# Step A

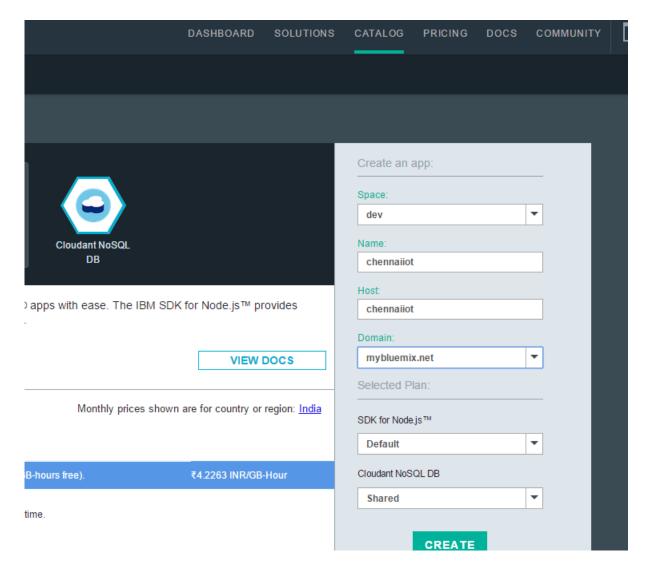
1. Register/Login to Bluemix

Register with Bluemix to get a 30days free bluemix trial using <a href="https://ibm.biz/hackblue">https://ibm.biz/hackblue</a> Or <a href="https://bluemix.net">https://ibm.biz/hackblue</a>

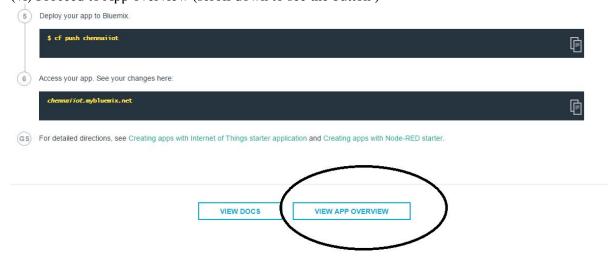
NOTE: GCTC hackathon participants has to register with Bluemix only using the following URL

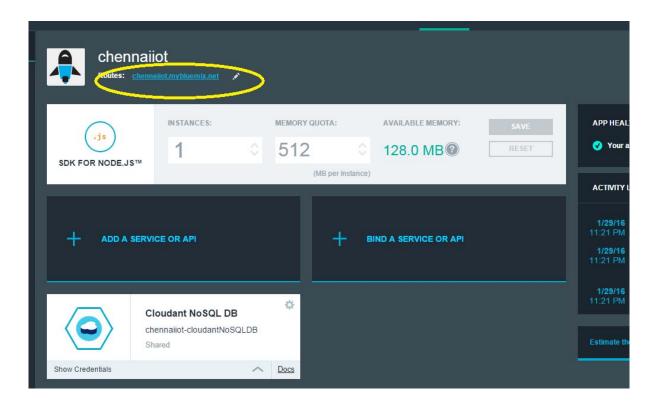
- ✓ www.ibm.biz/gctc2016
- 2. Deploy the Internet of Things Boiler plate (Catalog tab)



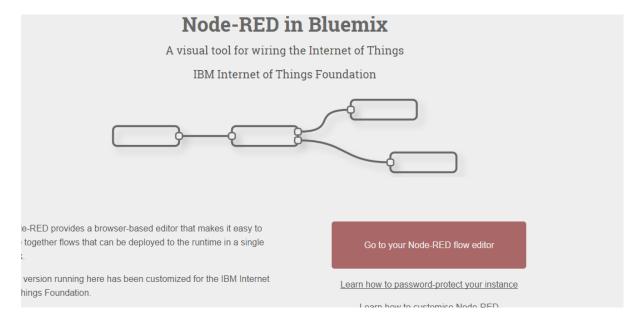


- (i) Name -> It should be an unique name. e.g Yourname123
- (ii) Space -> Create any space name
- (iii) Leave the rest to default value
- (iv) Click on CREATE
- (v) Application getting staged. At this stage, Node Red editor and Cloudant database is provisioned.
- (vi) Proceed to App overview (scroll down to see the button )

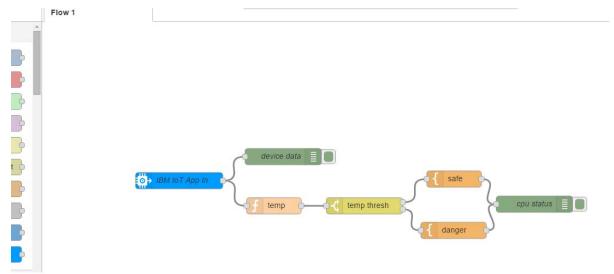




(i) click on the route to open the Node Red editor (as shown above)

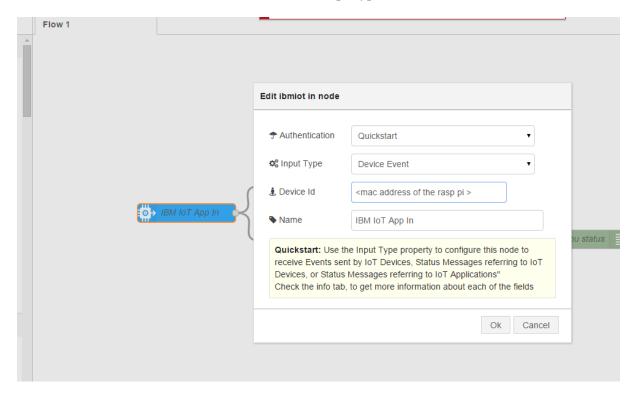


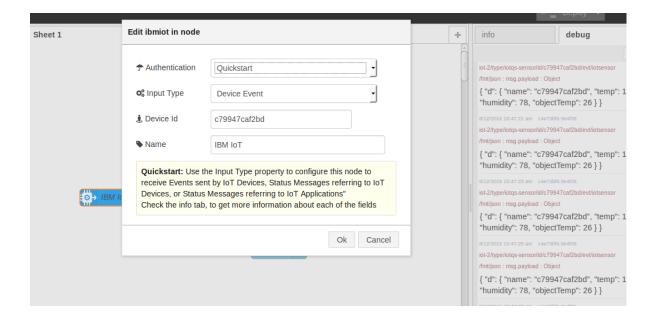
- (i) click on 'Go to your Node-RED flow editor
- 1. Click the link which will open the nodered in bluemix. (as shown below)



Note: What you see here are all different nodes which are wired to move the data from device to the Bluemix

- (i) click on "IBM IoT App In" node
- (ii) Provide the MAC address of the raspberry pi (to be shared by the event admin)
- (iii) Let the Authentication be "Quickstart" and Inpu type be "Device Event"





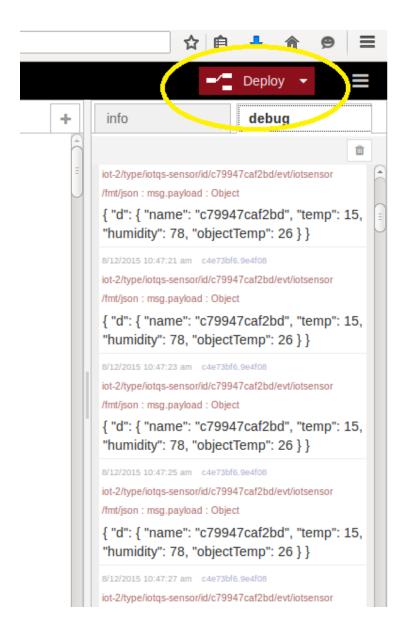
## **STEP B**

## Moving the data from device to the Bluemix cloud

(i) Go back to the recently deployed IoT Bluemix Boilerplate application , as shown in STEP  ${\bf A}$ 

(In our case, it will be xxxx123 .mybluemix.net)

(ii) Deploy the node red application, as shown below:

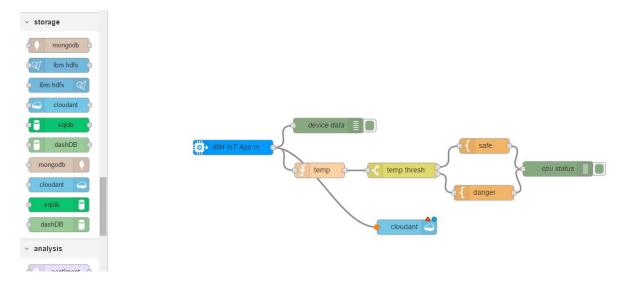


Note: The data from the raspberry pi displayed in the Bluemix nodered console, as shown above

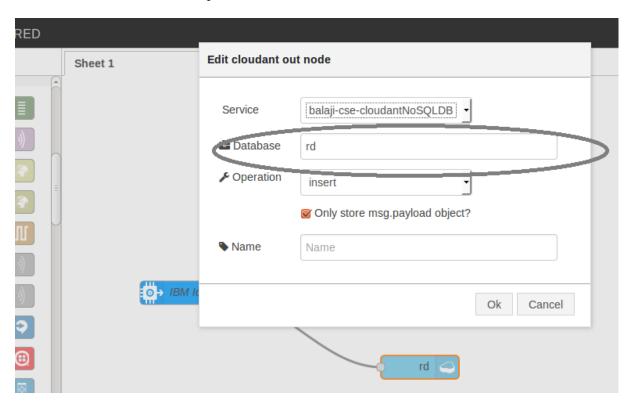
#### STEP 4

Moving the data to cloudant database

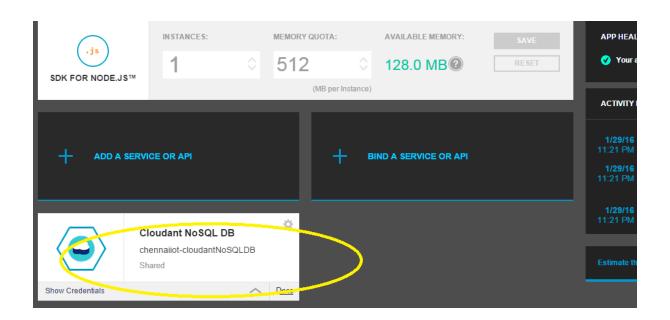
(i) Go to the node red editor, add cloudant node as shown below

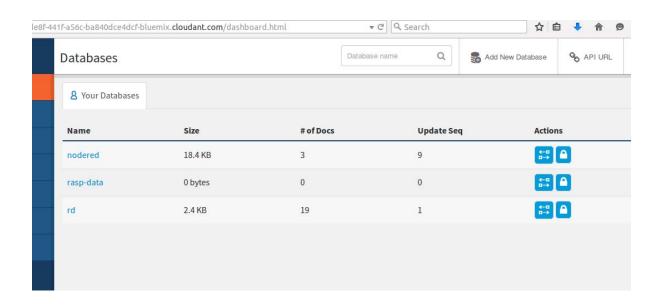


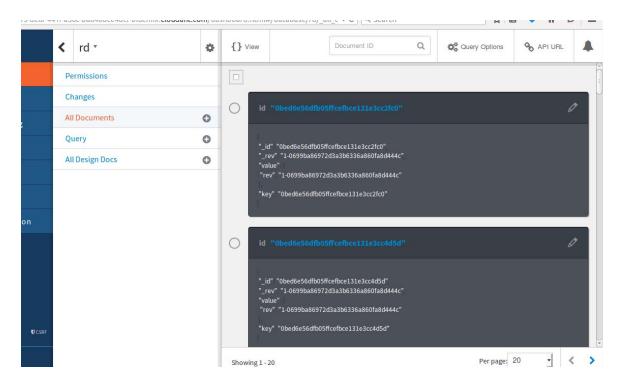
Click on the cloudnat node and provide the database name. In our case "rd"



View the data in cloudant console by going back to Bluemix application console







That's it...now the data flows down to cloudant database

## **Explore:**

- (i) Tweet once the temperature goes above say 35 deg
- (ii) Similarly try sending the data to other databases

Proceed to next lab on how to register the device and send command back to the device...

## Prepared by IBM EcoD India Team @ Feb 2016

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