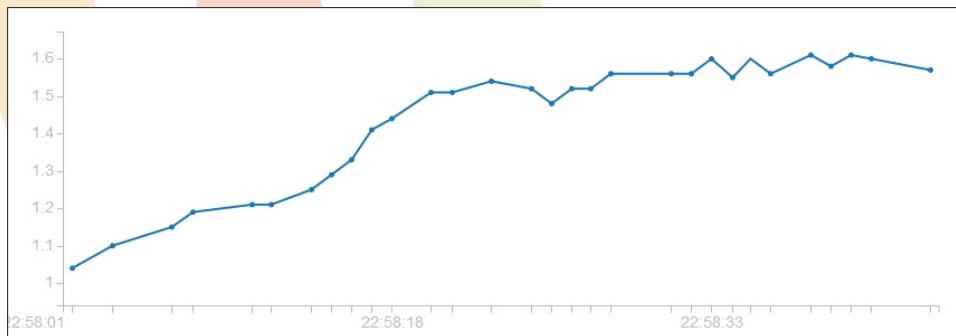


# Charts in cloud with IBM

This tutorial shows how to build a simple chart on the cloud with a simple node that sends values to the cloud.

Here how the result looks like:



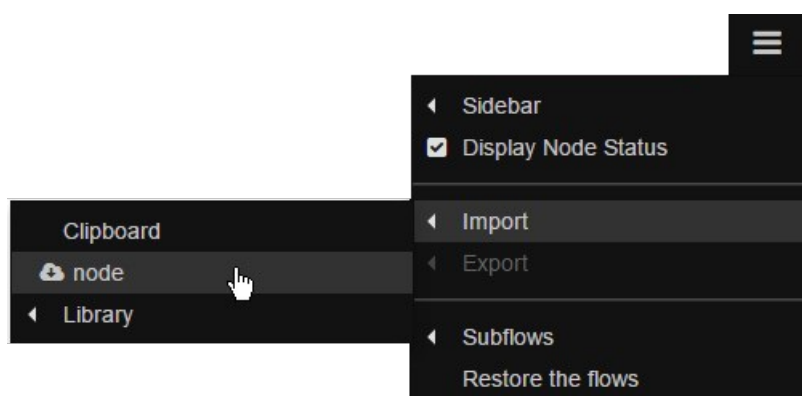
For this tutorial, we use the IoT Bluemix cloud from IBM and a node also provided by IBM to send datas.

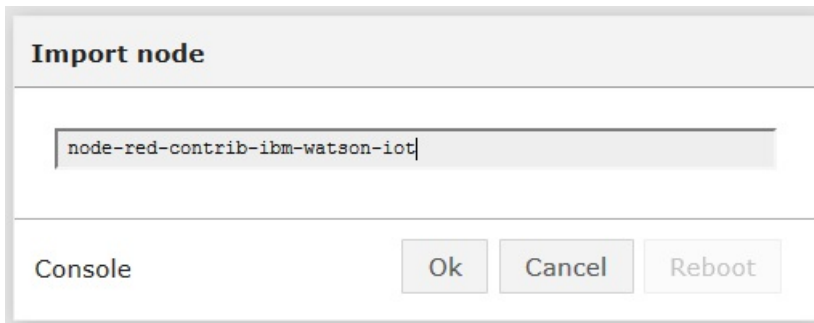


IBM offers a GREAT idea named "QuickStart" where you can get a result without all the pain of registering the service. First give a seamless result to the customer, then if he wants more you can ask him to invest some time (or money). Great lesson a lot of cloud service providers should ear.

## Install the nodes

Click the right menu in the Node-RED web page. Choose `Import` then node.





Type

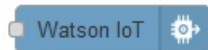
**node-red-contrib-ibm-watson-iot**

in the edit box and click the OK button.

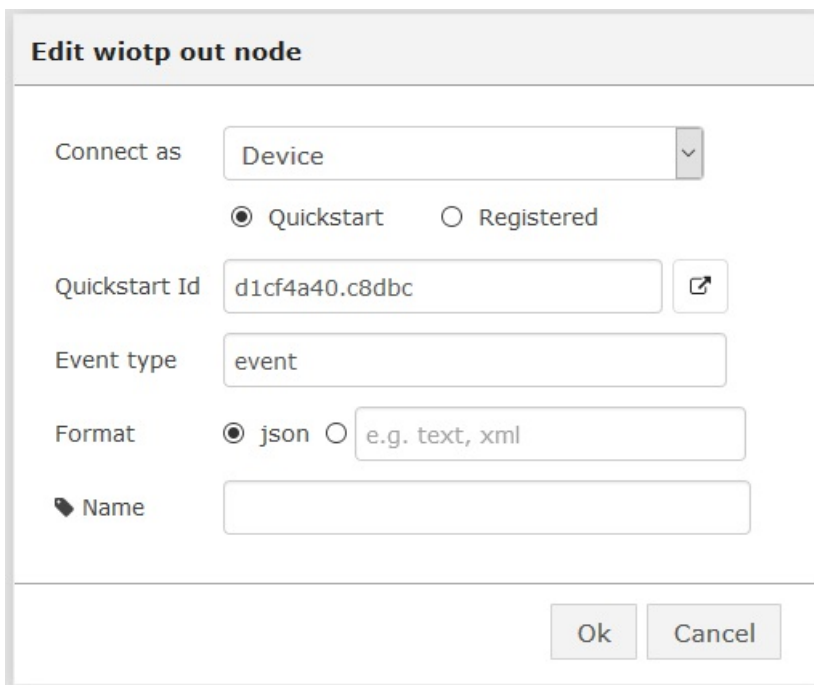
This imports a third party software. The installation may take minutes (a progress bar shows the progress), depending on what is already installed on your device.

At the end, click the `reboot` button to restart the device.

Now you can find this node in the palette (use the filter to find it):



Drag'n drop it on the workspace, and double click it to set parameters:



You can click the button below to get the cloud bluemix chart:



all these technical datas should normally not appear in a quickstart node that provide a seamless user experience.

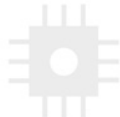


## Quickstart

No sign-up required to see how easy it is to connect your device to Watson IoT Platform and view live sensor data

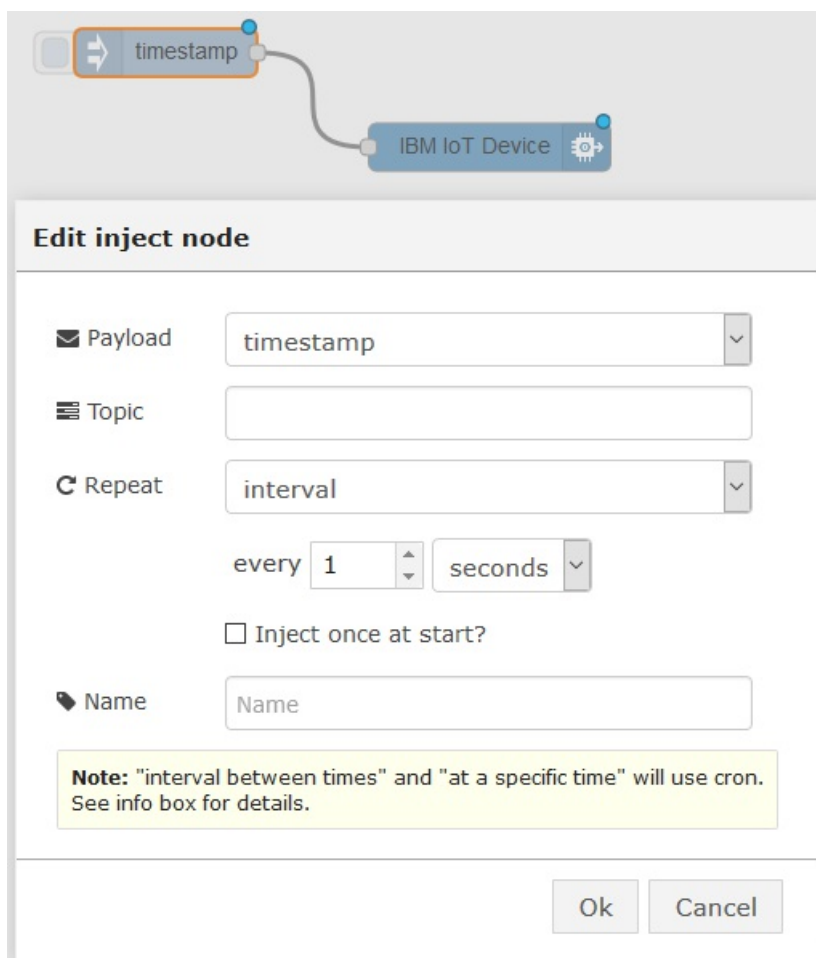
The device ID you have entered is valid, but we are waiting for your device to send us a message.

Get your device to send us some valid data - we'll visualize it for you!



## Send data and build a chart

Now you can send any numeric value. Let's build the simplest flow: add an "inject" node and set it to send the current date as a number every one second:

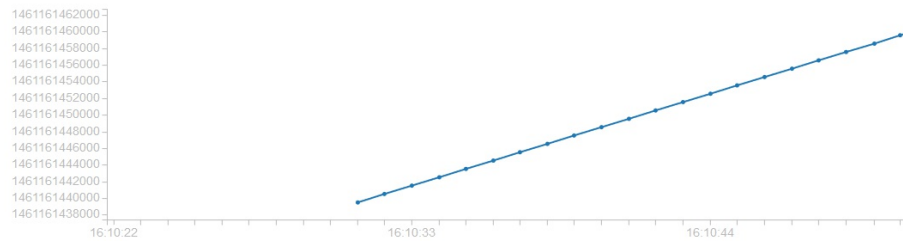


The screenshot shows a flow editor interface. At the top, a 'timestamp' node is connected to an 'IBM IoT Device' node. Below this, a dialog box titled 'Edit inject node' is open. The dialog has the following fields:

- Payload:** A dropdown menu with 'timestamp' selected.
- Topic:** An empty text input field.
- Repeat:** A dropdown menu with 'interval' selected.
- every:** A numeric input field with '1' entered.
- seconds:** A dropdown menu with 'seconds' selected.
- Inject once at start?:** An unchecked checkbox.
- Name:** A text input field with 'Name' entered.

At the bottom of the dialog, there is a note: "Note: 'interval between times' and 'at a specific time' will use cron. See info box for details." Below the note are 'Ok' and 'Cancel' buttons.

And look the beautiful result:



Beyond this Quickstart mode, IBM offers a full featured cloud for IoT.

## Credits

This tutorial uses IBM IoT Bluemix: <http://discover-iot.eu-gb.mybluemix.net>

## Where to go now

- Learn more about IBM IoT Bluemix: <http://discover-iot.eu-gb.mybluemix.net>
- Get a full documentation on the Node: <https://www.npmjs.com/package/node-red-contrib-ibm-watson-iot>
- Discover other IoT cloud offers with the "**Use IoT platforms**" tutorial.