Internet of Things (IoT)

Configuring Boards & Cards in the new W Dashboard

In this tutorial, you will learn how to use the new Cards in the Watson Internet of

Recipes@WatsonIoT

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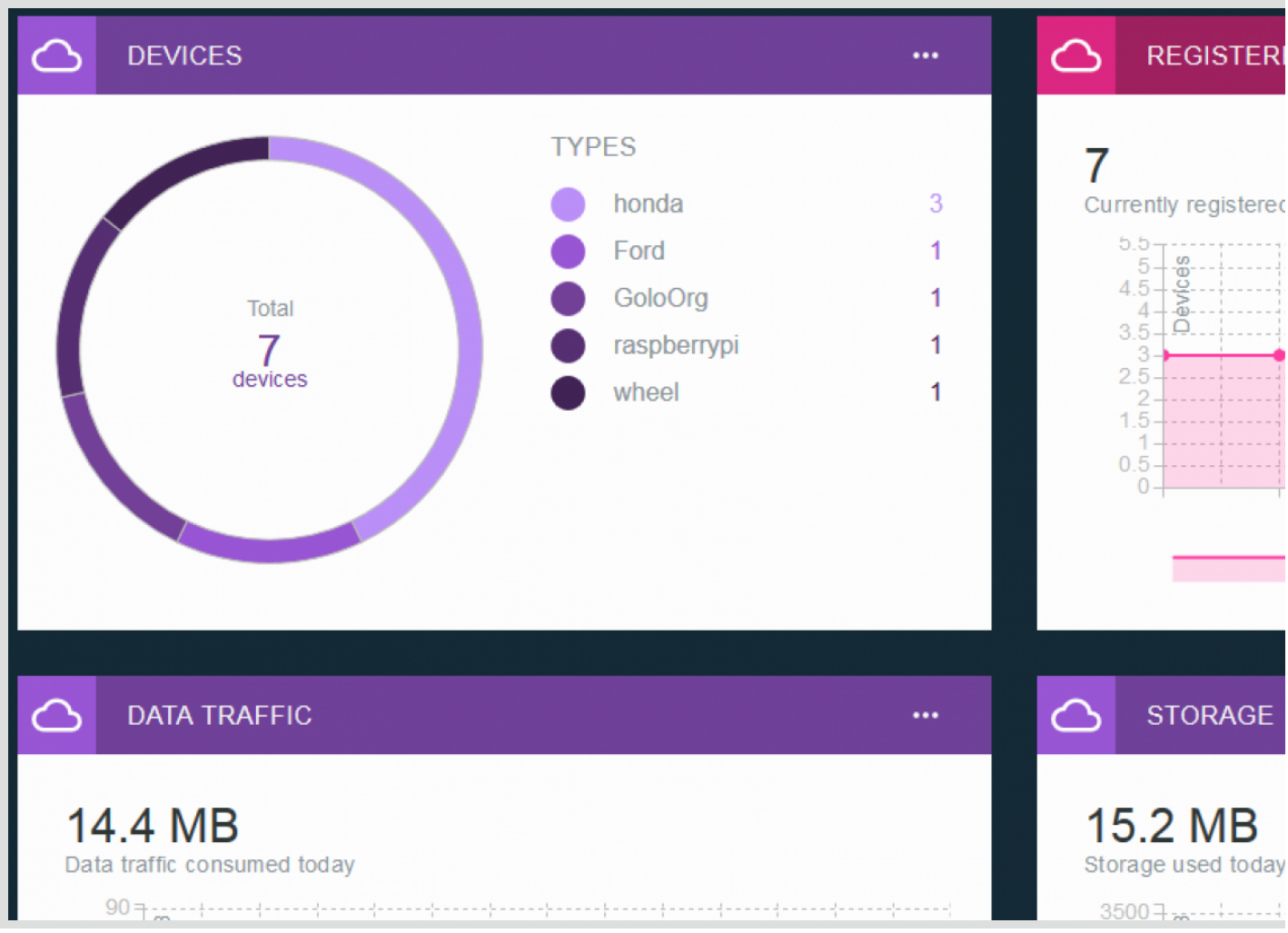


Contents

Overview

Skill Level: Beginner

Beginner

With Boards & Cards in the Watson Internet of Things platform, you can now build your own Cust
depict and display vital statistics of interest with varied visualization options. Board(s) provide yo
page and group

Ingredients

Watson IoT organization

Step-by-step

1 Introduction

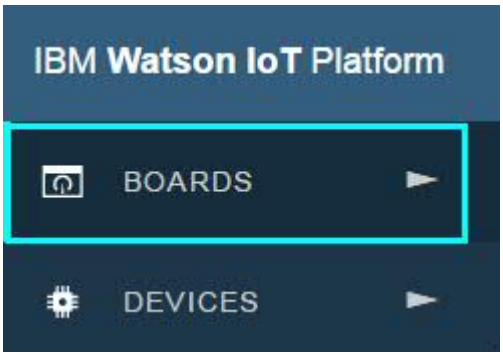
With the new boards and cards in the Watson Internet of Things platform, you can **build yo
Dashboard.** You can use the boards as the landing page of interest and then make use of th

1. Create **visualization charts** for the **real time data** from your devices
2. Create **Gauges** for visualizing **physical quantities** like Vehicle Speed, Temperature, pre
3. Create Donuts charts, bar charts to display the current value of the data points
4. See the **Data and storage consumption** of your devices
5. List of registered devices

2 Overview to Boards & Cards

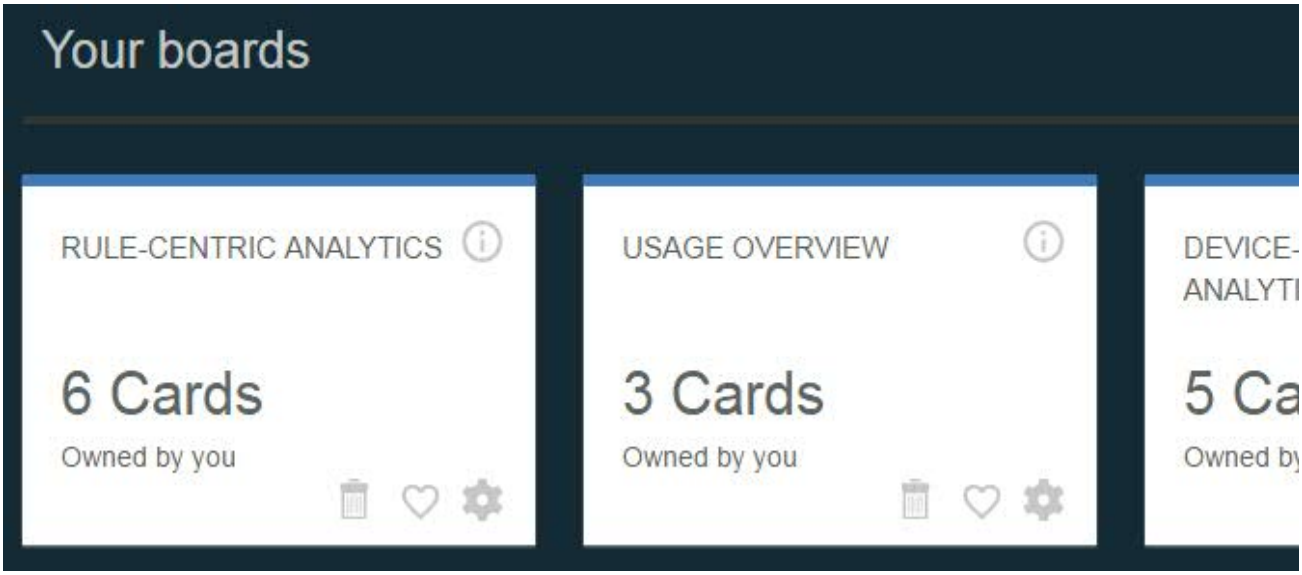
Boards page is the default landing page, when you log into Watson IoT Platform Dashboard number of Cards and each Card has to belong to one or the other Board. Cards depict and c interest with varied visualization options.

Just in case, you have navigated to other tabs of interest and willing to get back to the defa Boards page, then, click on the BOARDS, as available on the left hand side menu, as shown



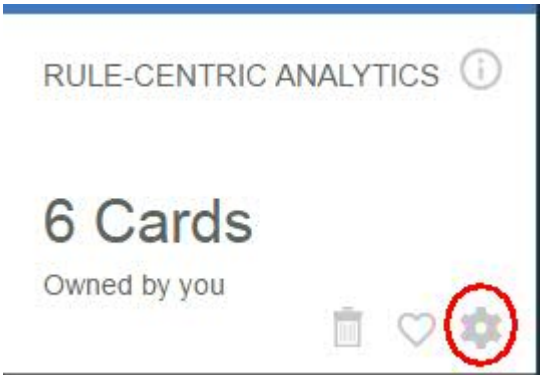
The default landing page BOARDS, displays three default Boards, that are already made av following Image:

- **RULE-CENTRIC ANALYTICS** – Rule-centric default board to show analytics informa
- **USAGE OVERVIEW** – Default board to show usage statistics
- **DEVICE-CENTRIC ANALYTICS** – Device-centric default board to show analytics inforr

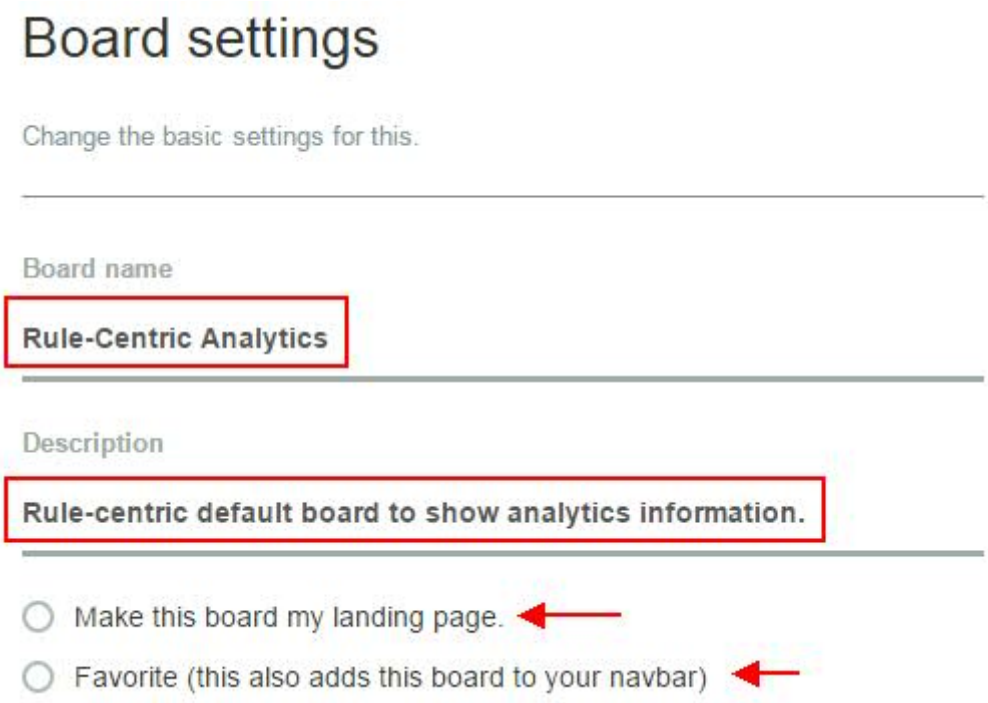


You can either plan to customize them and use them, as-is or create a whole new Board for

To customize an existing Board, hover the mouse over the Board of choice and click on the

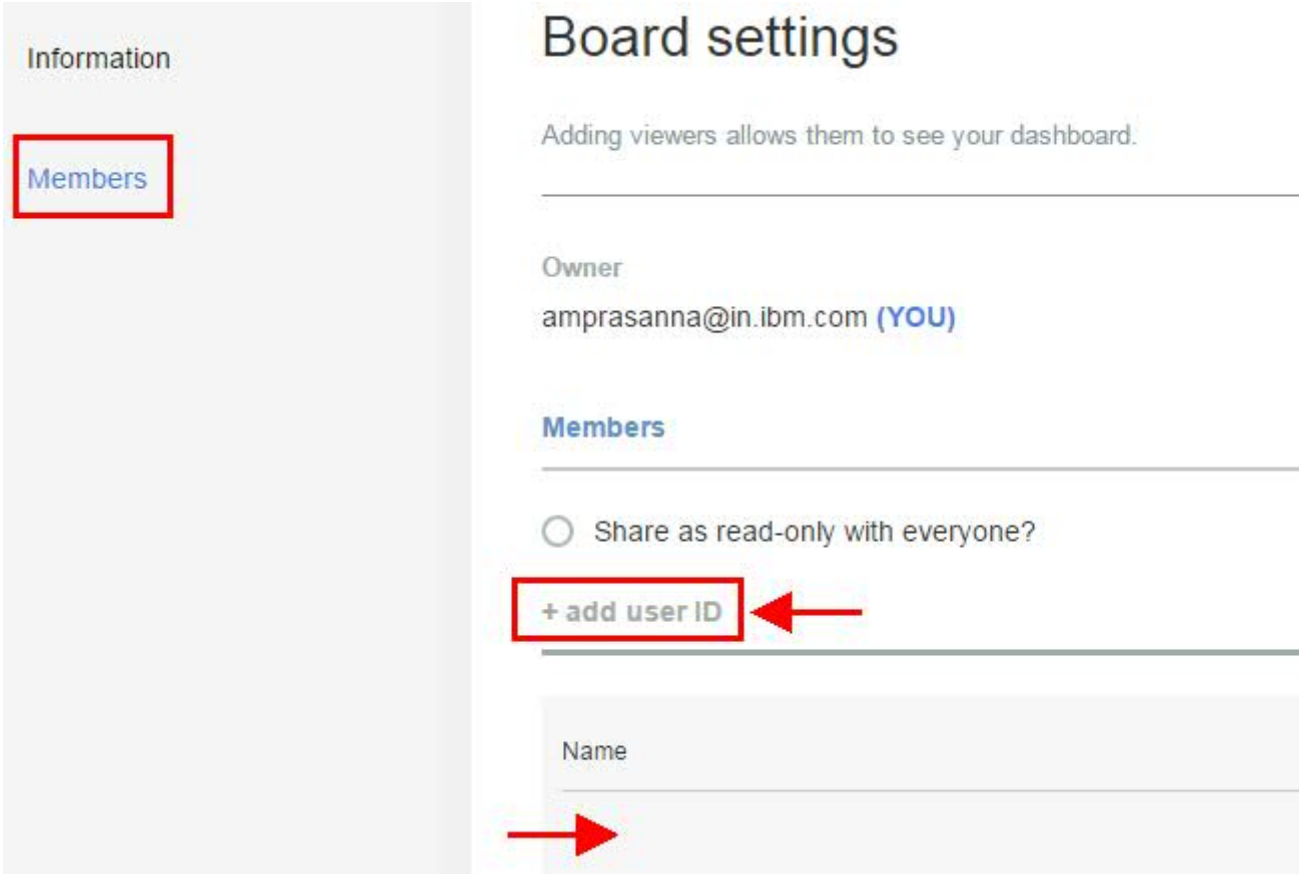


In the Information tab, plan to update the Board Name and it's Description. Choice to make landing page and have this Board as part of your Favorite, are made available here.



The ***Members*** tab allows you to add Users with varied privileges to access the Board. In add Users with privileges of Administrator, Analyst, Developer, Operator and Reader, to access t

Note: The Members need to be first added in the Members page, as available on the left ha ***Add Members*** option.



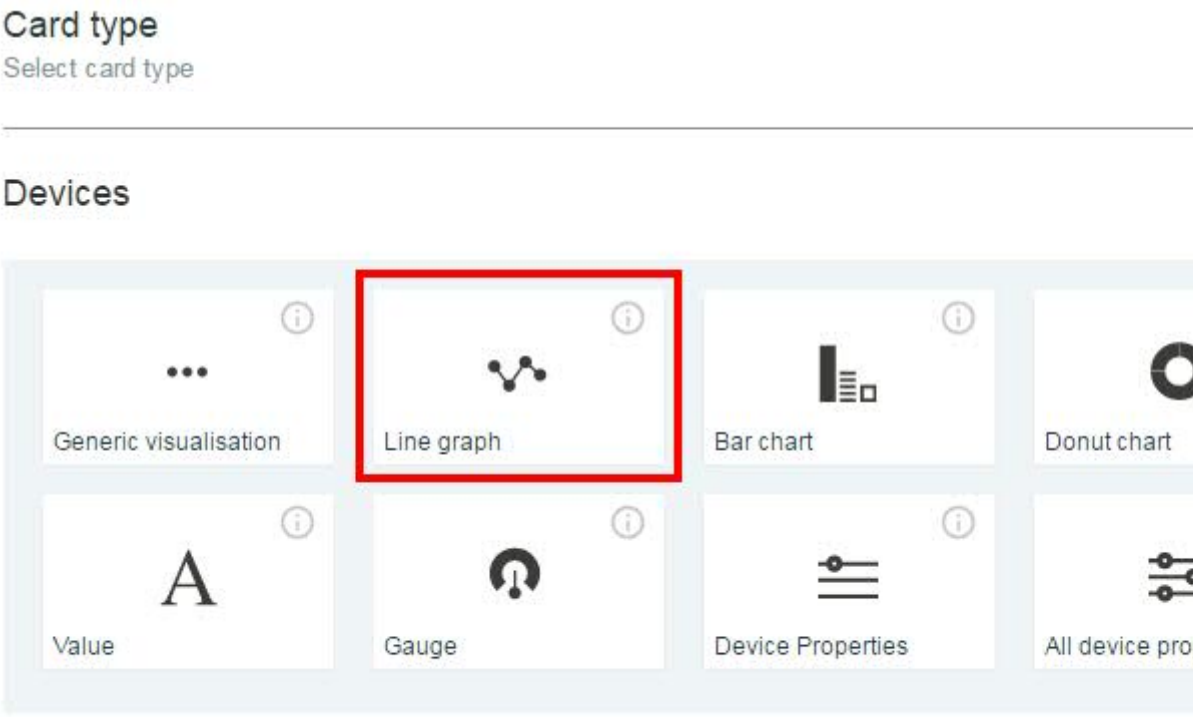
To create a new Board, in addition to the existing ones, use the ***+Create New Board*** option, right corner of the BOARDS page:

Update the ***Information*** and ***Members*** tab, as depicted in the Images mentioned above and adding a new Board to your Watson IoT Platform Dashboard.

3 Realtime Data Visualization

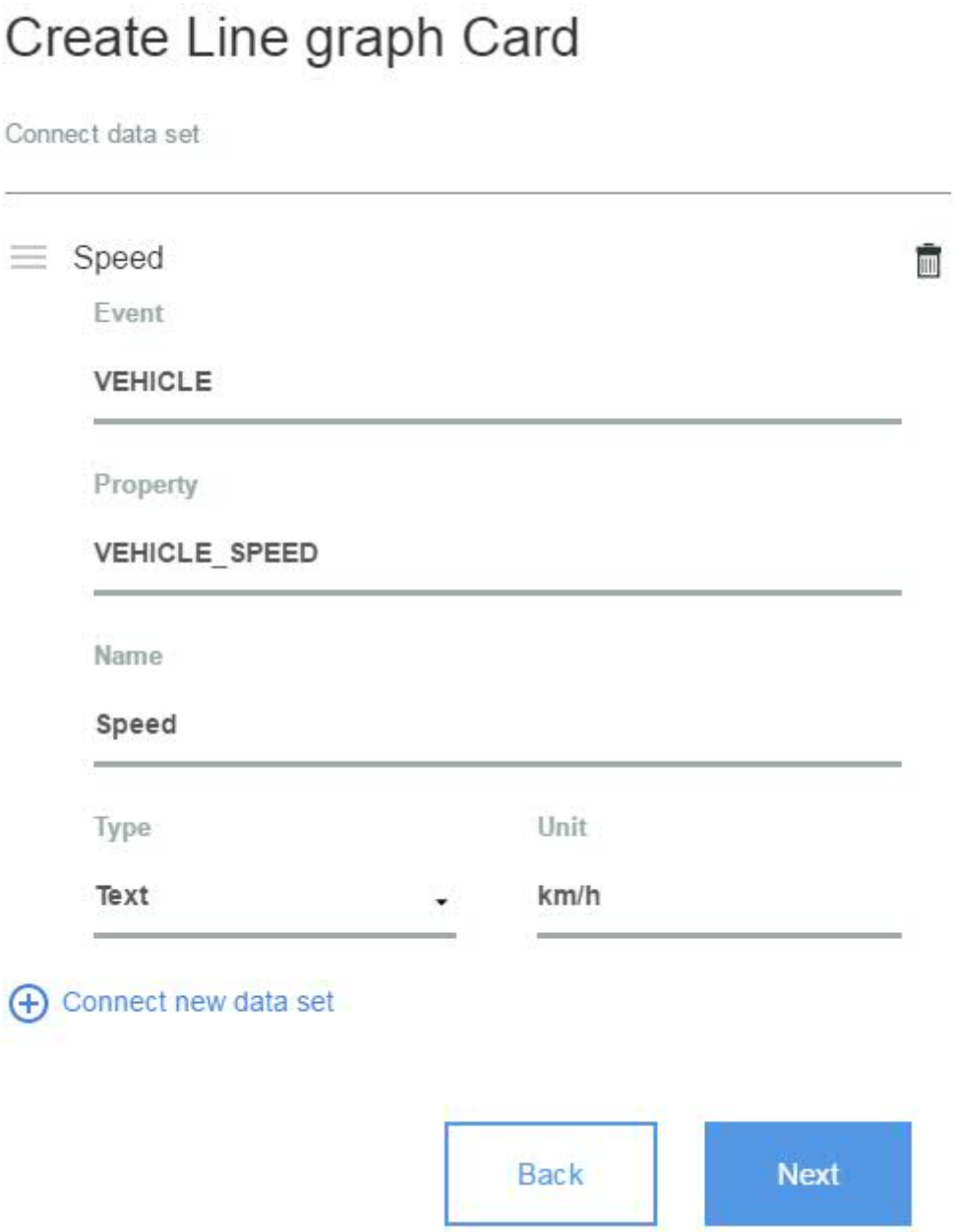
1. Click on any default BOARD to work with the CARDS. In the scope of this section, let us Overview Board and work on the Visualization aspect of data
2. Now, Click on **+ Add New Card**, to add a new Card of choice

3. Under the **Devices** section, select **Line Graph Chart**, to display time series information



4. Select a **device**.
5. Now, define the data set for the visualization. Click **Connect new data set.**

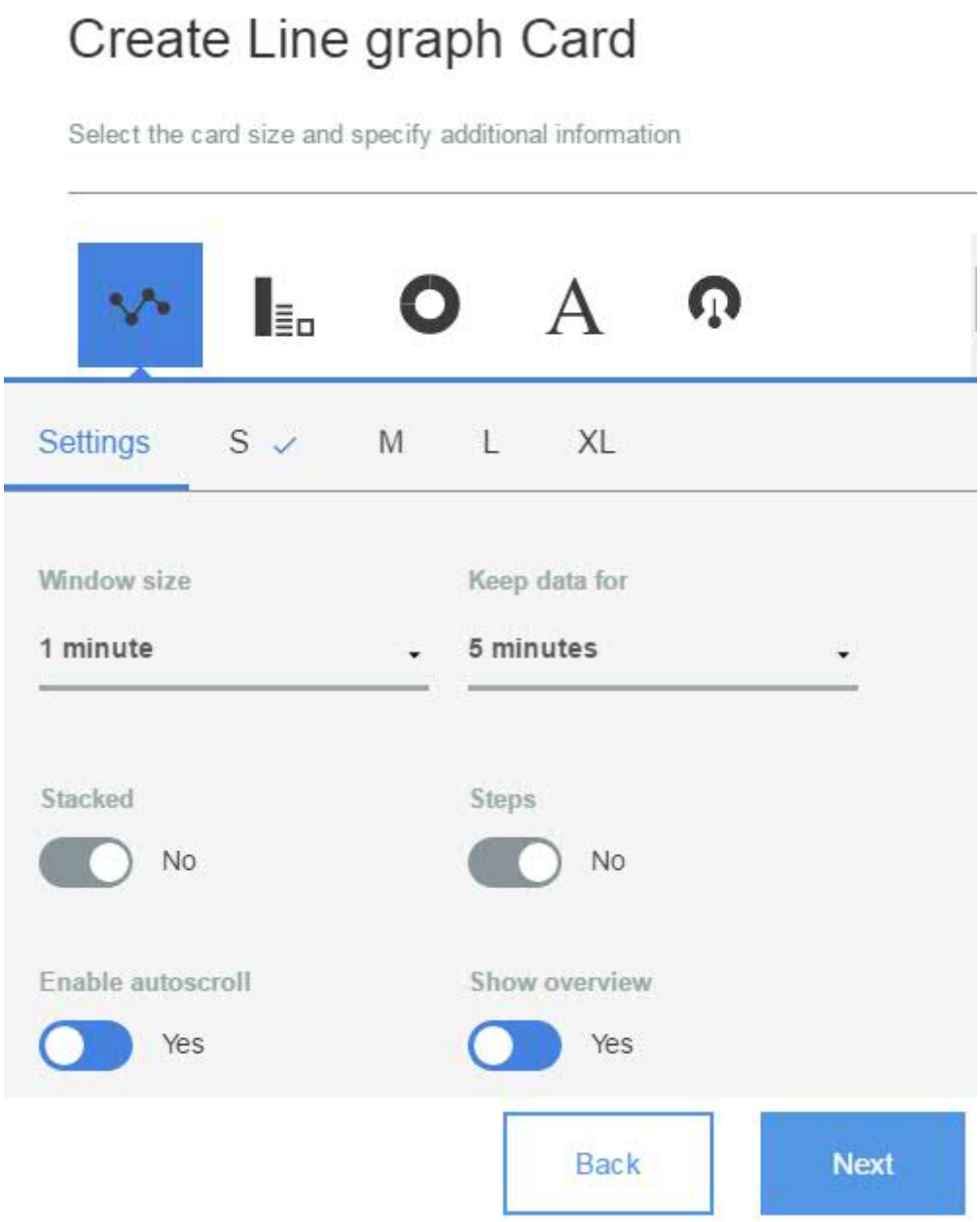
a. 1. Enter the **name** for your data set.
b. 2. Select the **event**. (Tip: If the device is publishing events, it will be populated in the
c. 3. Select the **property** of the event. (Tip: If the device is publishing events, it will be p
d. 4. Optionally, you can select the **unit** of the data set as well.
e. 5. Repeat this steps to add other properties.
f. 6. You can **reorder** the datapoints by dragging the data points and dropping them. order of visualization



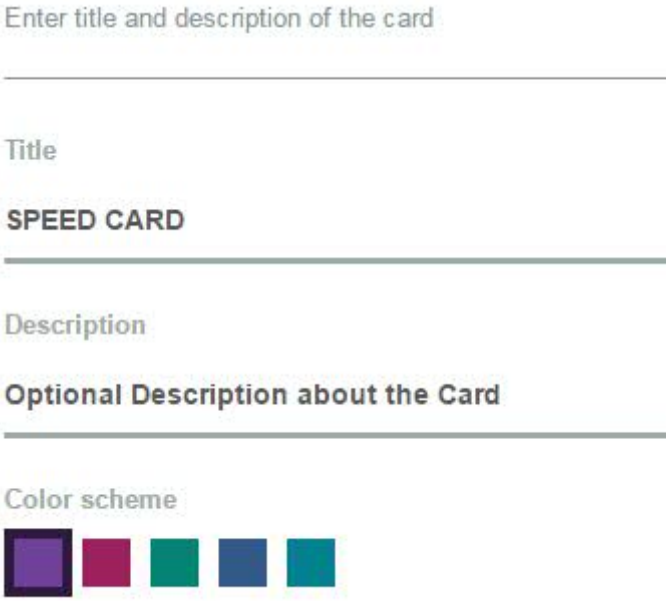
6. Click **Next**
7. Preview the card. You can select the size of the card now. By default Small is selected.
8. In the **settings** tab, you can change the settings for the visualization.

a. 1. You can edit the window size of the events

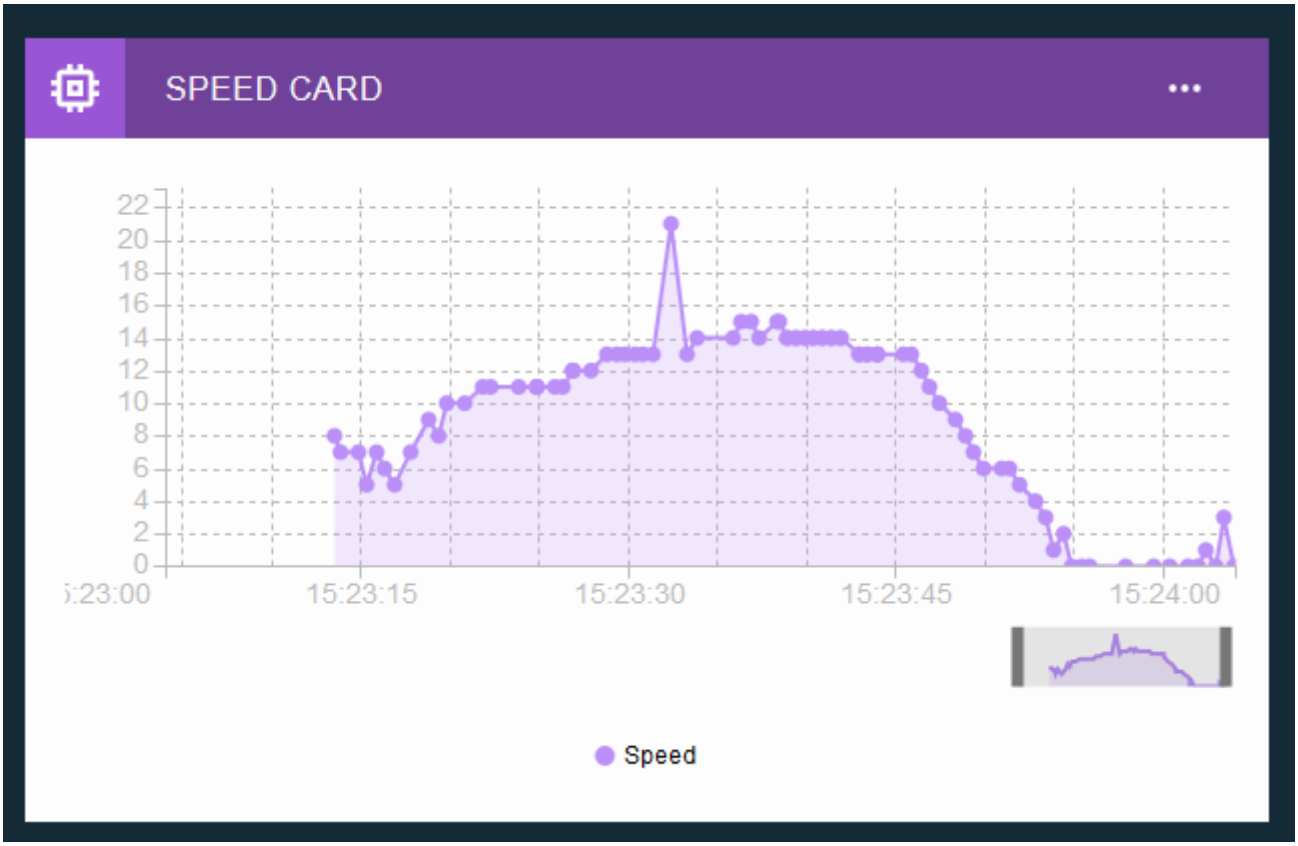
b. 2. Retention time for the data



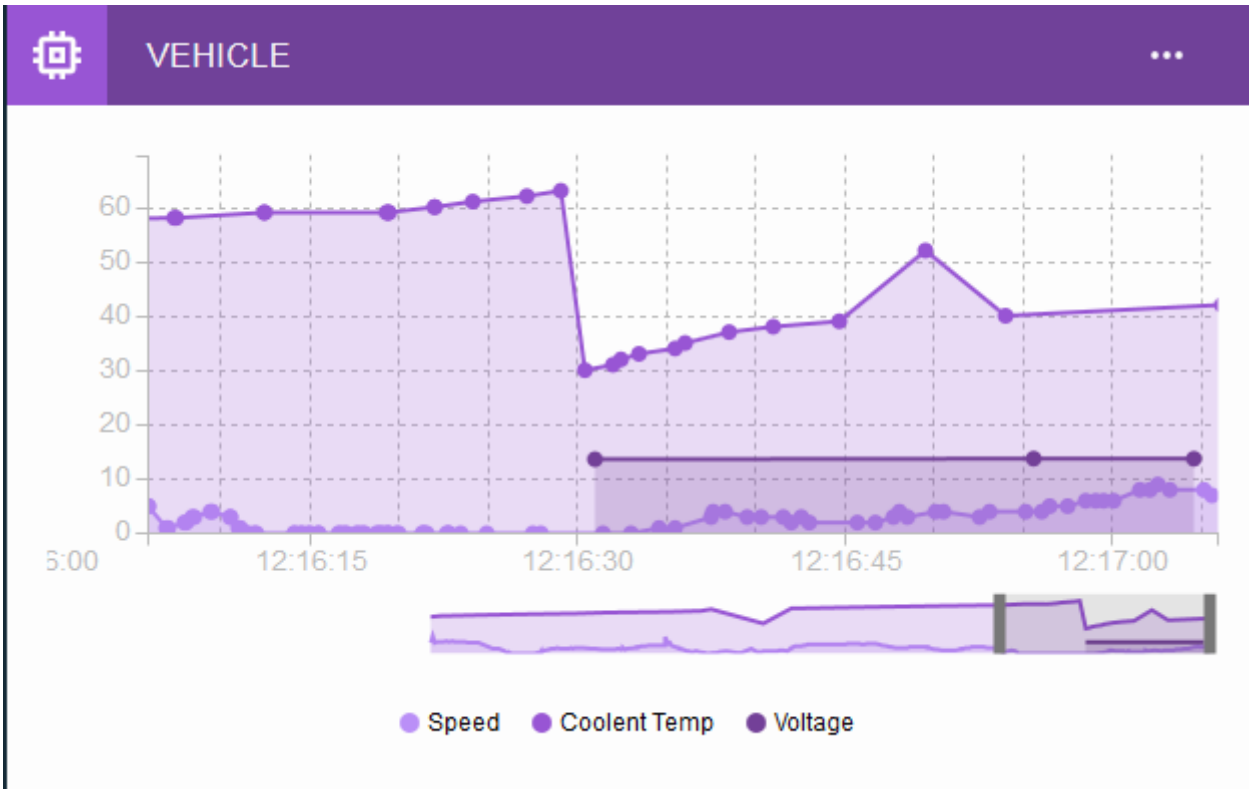
9. Click on Next to update Card Information. Provide appropriate Title to the Card, a Desc choose a color of choice for the Card



10. Click **Submit.**



You can configure **multiple data points** to get visualization chart for all the values.



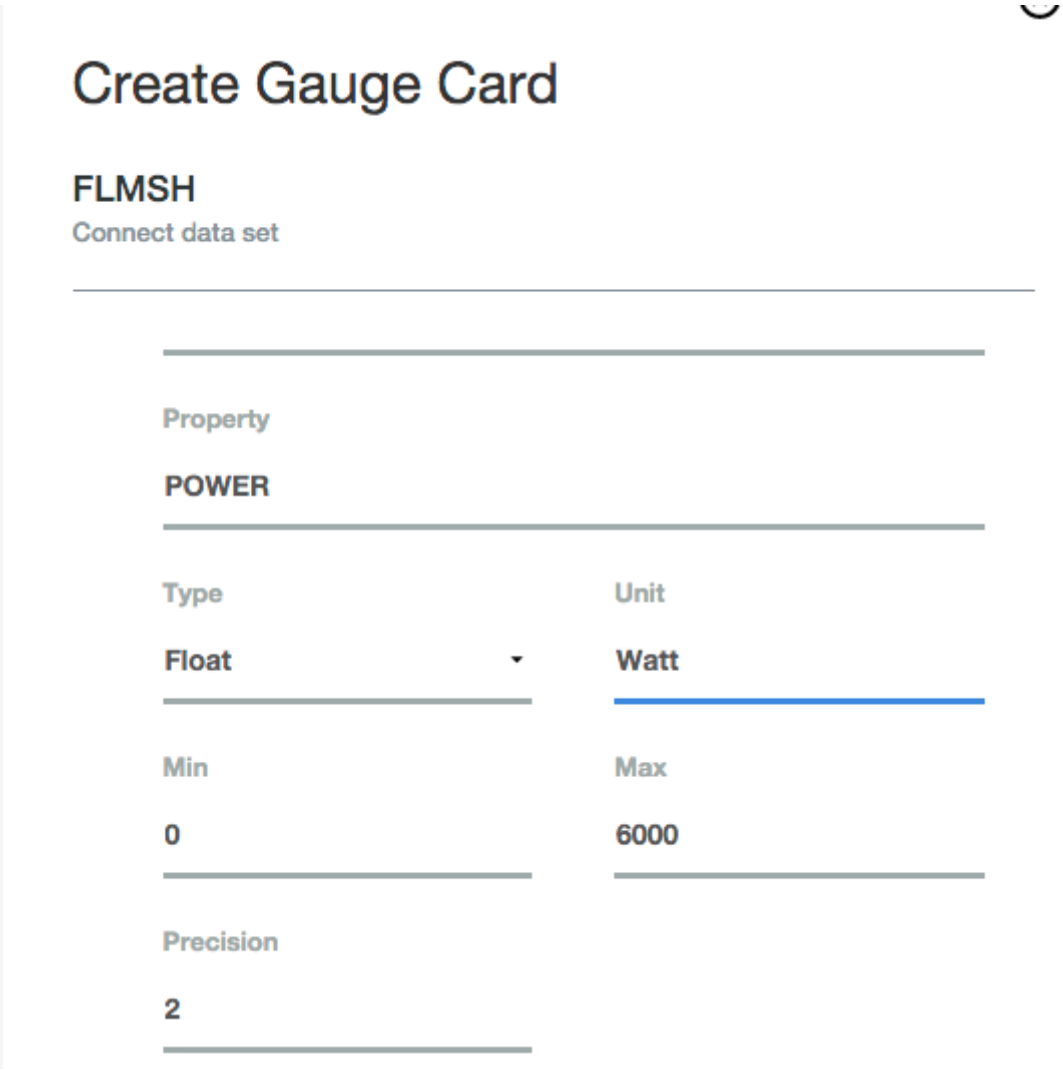
Now you have successfully created the real time visualization for the devices in Watson Int
In the next step, you will learn how to create Gauges.

4 Gauges

1. In the overview tab in the Dashboard, Click **+ Add New Card**.
2. In the Devices section, select **Gauge**.
3. Select a **device**.
4. Now, define the **data set** for the visualization. Click **Connect new data set.**

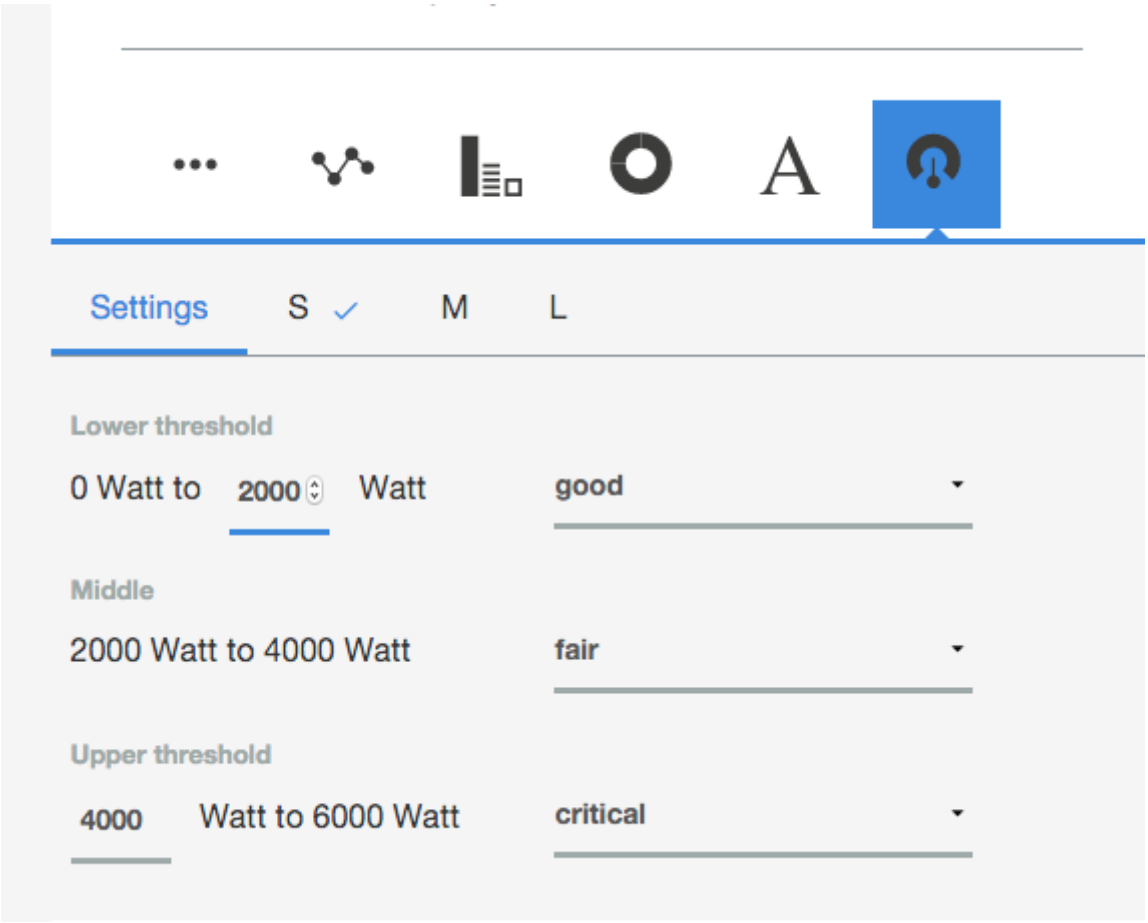
a. 1. Enter the **name** for your data set.
b. 2. Select the **event**. (Tip: If the device is publishing events, it will be populated in the
c. 3. Select the **property** of the event. (Tip: If the device is publishing events, it will be p
d. 4. Optionally, you can select the **unit** of the data set as well.

5.

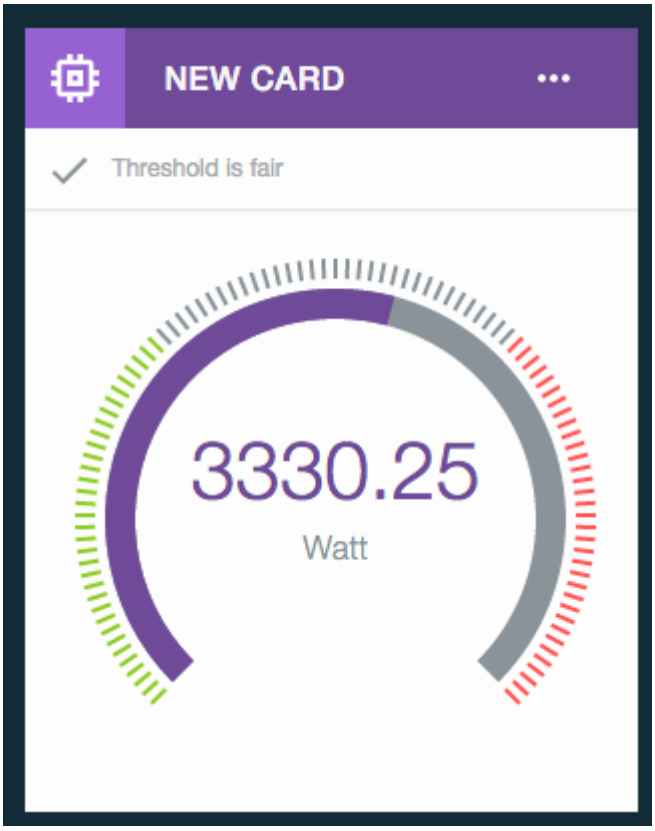


e.

5. Click **Next**
6. Preview the card. You can select the size of the card now. By default Small is selected.

7. You can also edit the settings of the gauge visualization at the **settings** tab.
    1. You can edit the lower, Middle and Upper threshold settings for the Gauge widget.
8. 

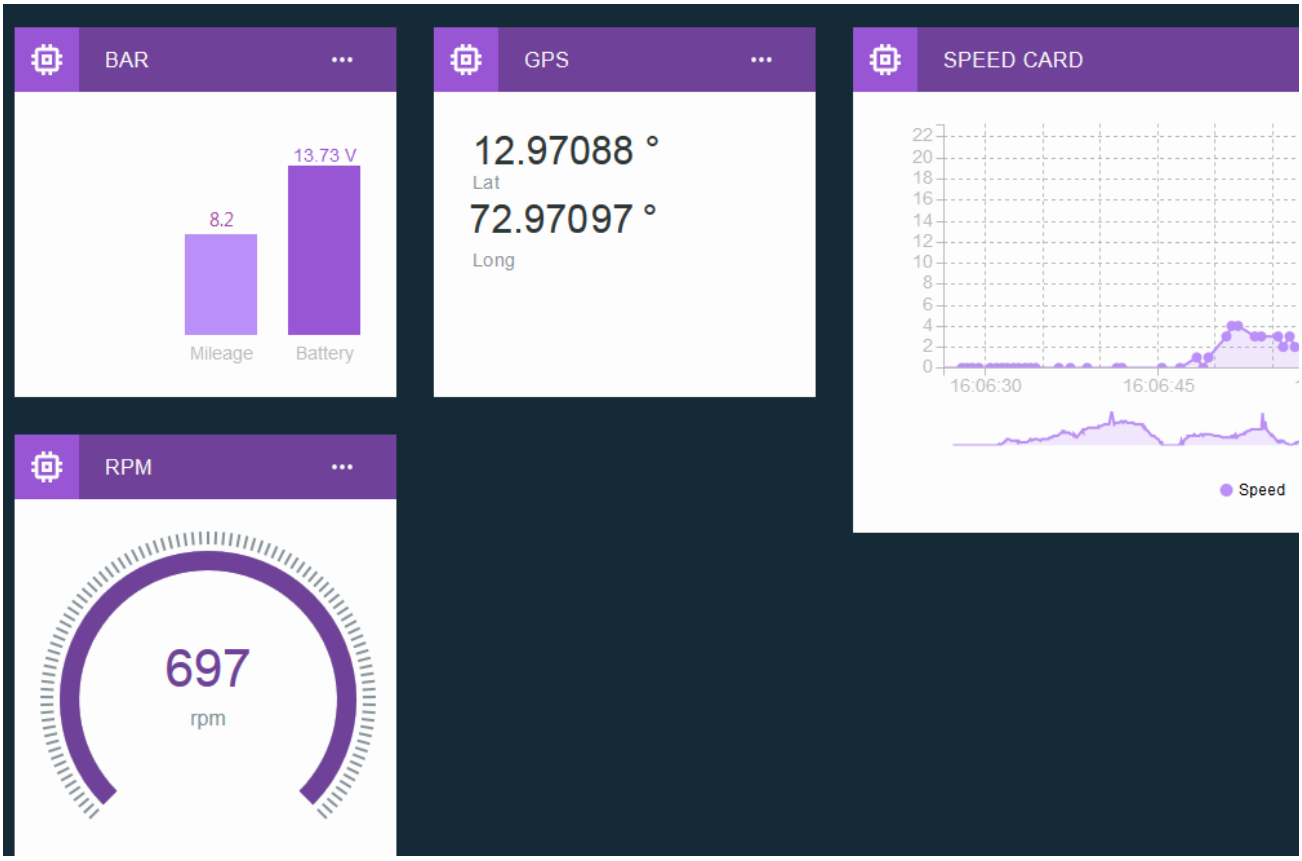
9. Enter the title for the card and click **Submit**.



Now you have successfully created the Gauges for the physical quantities in your devices ir Things platform.

Similarly, you can create bar graphs, donut chart for the events published from the devices.

Below is the dashboard created for data published from a car



5 Usage Statistics Cards

This cards can be used to build Dashboards to get the data regarding the devices connecte Data.

1. In the Usage Overview Board, **Click + Add New Card**.
2. In the Usage section.
3. Select **Device Types**

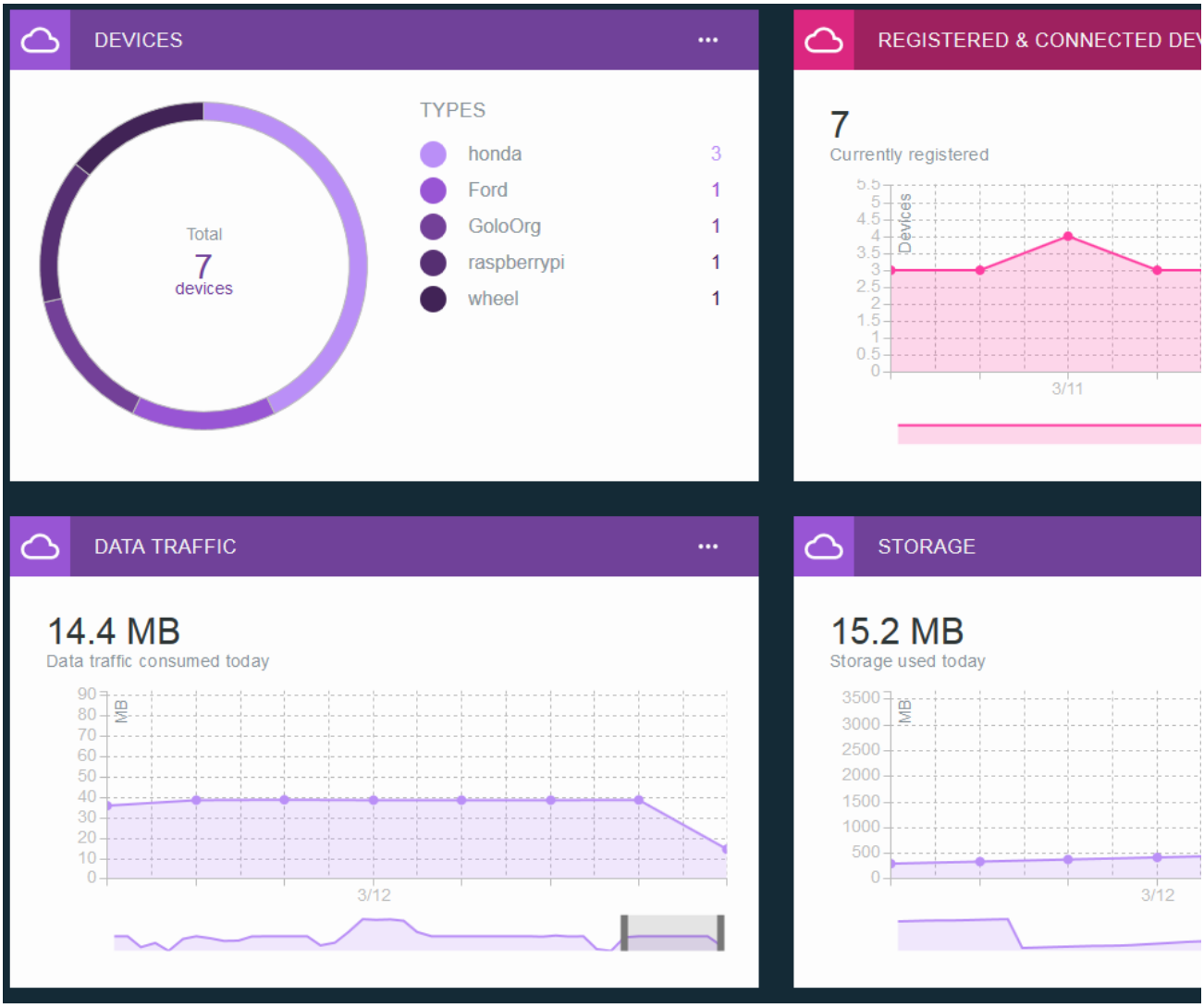
a. 1. This gives information of all the devices registered in Watson IoT.

b. 2. Select the Size of the card

c. 3. Give a suitable title to the card.

4. Select **Data Transferred**.
    1. This gives information on the amount of data transferred, as of today.
    2. Select **XXL** size.
    3. Give a suitable title to the card.
5. Select **Data Consumption**.
    1. This gives information about the Data traffic
    2. Select **XXL** size
6. Select **Storage Consumption**.
    1. This gives information about the Storage consumption in the platform
    2. Select **XXL** size

Below is the screenshot with all the 4 usage cards added in the dashboard.



6 Conclusion

So in this tutorial, you have learnt to create the Boards and Cards in the Watson IoT platfor dashboards for your IoT solutions. As a next step go through following recipes to help build solution,

- DeviceList card to monitor data from multiple devices – Helps monitor specific status a from a list of multiple devices, using various visualization options with a click of a butto
- Visualize Historian data in Watson IoT Platform – Helps to visualize the device data sto Line Chart Card.
- Real-time data analytics in Watson IoT Platform – Showcases how to create rules and a real-time.

For any Feedback/Questions, please feel free to comment below

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TAGS CUSTOM, DASHBOARD, GAUGE, GRAPH, IBM WATSON IOT PLATFORM, IOT, IOTF, QUICKSTART, REALTIME, RTI, SENSOR WATSON IOT

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by Recipes@WatsonIoT

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13 comments on"Configuring Boards & Cards in the new Watson

DarthNEvadeher • April 06, 2016

Hi, I cannot find the, 'Add A new card' option in my dashboard. Can someone please help?

Log in to Reply

Amit M Mangalvedkar • April 06, 2016

This functionality is provided as a beta feature, so you need to turn on the experimental features. Click or select the experimental features.
Thanks and Regards
Amit M Mangalvedkar

Log in to Reply

DarthNEvadeher • April 06, 2016

I am trying to get a visualization of the data from my mbed iot device. I have followed all of the steps mer
the card, no data is being passed in. What I mean is that the real time chart displays no data.

Log in to Reply

Jeffrey Dare • April 07, 2016

Hey @DarthNEvadeher,
Were you able to see the list of properties from the drop down menu when configuring the visualization?
property names are populated correctly. So this will also ensure that the system is able to receive the eve

If you manually entered the property name, can please recheck the property name as it is case insensitiv

Log in to Reply

DarthNEvadeher • April 07, 2016

Hey @JeffreyDare
I have managed to do it. I did not configure it properly and thus it did not work.
Thank you very much, for your advice. I can create a real time card.

Log in to Reply

rcruicks • June 21, 2016

i like! so much quicker and easier than faffing about with RTI.
once we have a dashboard built, though, how does one embed that in a external application? customer p

Log in to Reply

Dennis.Lopes • August 15, 2016

Hello,

I tried to use Real Time chart card, but it's not working as expected. Curiously I was able to use the card I
properties being transmitted by my TI Sensor Tag, but when I select the same parameters to be shown ir
plotted. Sounds like a problem in this card.

Log in to Reply

AndrewCrisp • March 06, 2017

Hi,

Do you know of a way to display text data in the dashboard, for informational purposes? The cards seem
coming in through the platform.

Log in to Reply

Roriz • May 05, 2017

Hi,

How can I change the decimal places? I only can see my data with 1 decimal place.

Thanks

Log in to Reply

Recipes@WatsonIoT • May 08, 2017

Hello Roriz,
1. In the Device Card of choice, click on the SETTINGS and choose the Data Source of interest entry.
2. Now, in the 'Type' entry, you would have chosen FLOAT as your data type. Under the TYPE c to see PRECISION option, whose entry is defaulted to 1 (single precision). Modify the value t extend the precision to 2 or 3 decimal places.
3. Click on Next to continue and Save the settings

Log in to Reply

Rossfe92 • November 22, 2017

Hi,

I follow this receipe end all work fine, but I'm able to add only one card for board. What is the solution for

Log in to Reply

kris_fbapps • July 04, 2018

Hi,
I have events publishing from a remote node. Events show up on the Devices tab of my dashboard, howe data using a new Card in the Boards tab, I get to Create Line Chart card and then the drop down does not events are seen coming in at the Device tab. I created an API with token and key, but these don't seem tc key and token need to be sent from the node in stead of existing Device ID and token? Thanks

Log in to Reply

Kresna D • August 19, 2018

Hi i have try with this card. but it can't work. I have succeed send data with mqtt client and in history raw "status123" and property "adc" with value "10", but when i creating with card with same event property How to solve that ? thankyou

Log in to Reply

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