Smart Cities Hackathon
Tier 1 Challenge 2

Tier 1: Challenge 2

Challenge 2: Create Analytics Widgets

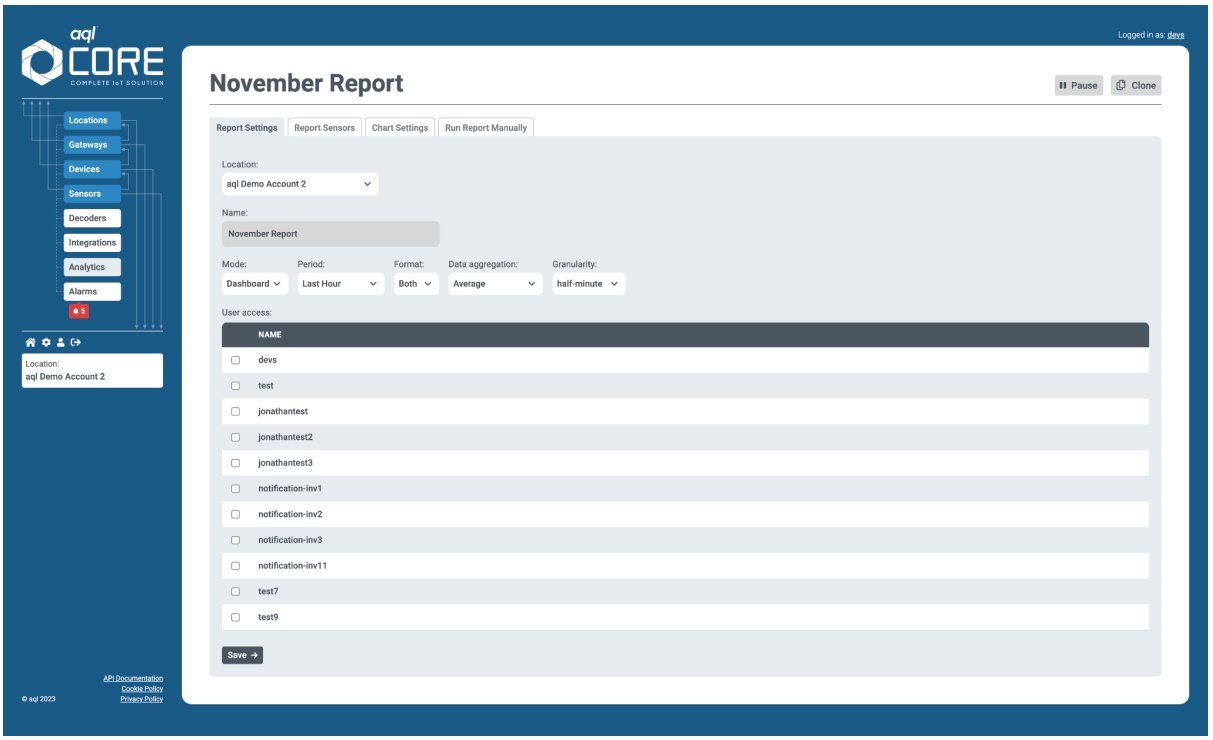
In this challenge, you will choose a selection of sensors from the differing samples and you will create a series of Widgets. Can you create a line, scatter, and bar chart with multiple Y Axis?

Step 1

Before creating your analytics widget, it will be beneficial to browse through the available devices and their respective sensor readings. This will show you relevant data that you may want to present within your analytics widget. To view a device's sensor readings, navigate to the "Devices" section on the left-hand menu and select a device from the table. Then, you will be presented with a list of that device's available sensors. Selecting a sensor will present you with a graph that charts the sensor's readings. Once you see some sensors you wish to add to your analytics, make a note of the device name. This is so you can add this later on.

Step 2

Navigate to the "Analytics" section from the menu on the left, and select the "Add Analytics Report" button in the top right of the page. Enter a name and description for your team's analytics widget and select a desired location from the location field. It's important to select the location that has the devices you wish to use for this challenge.

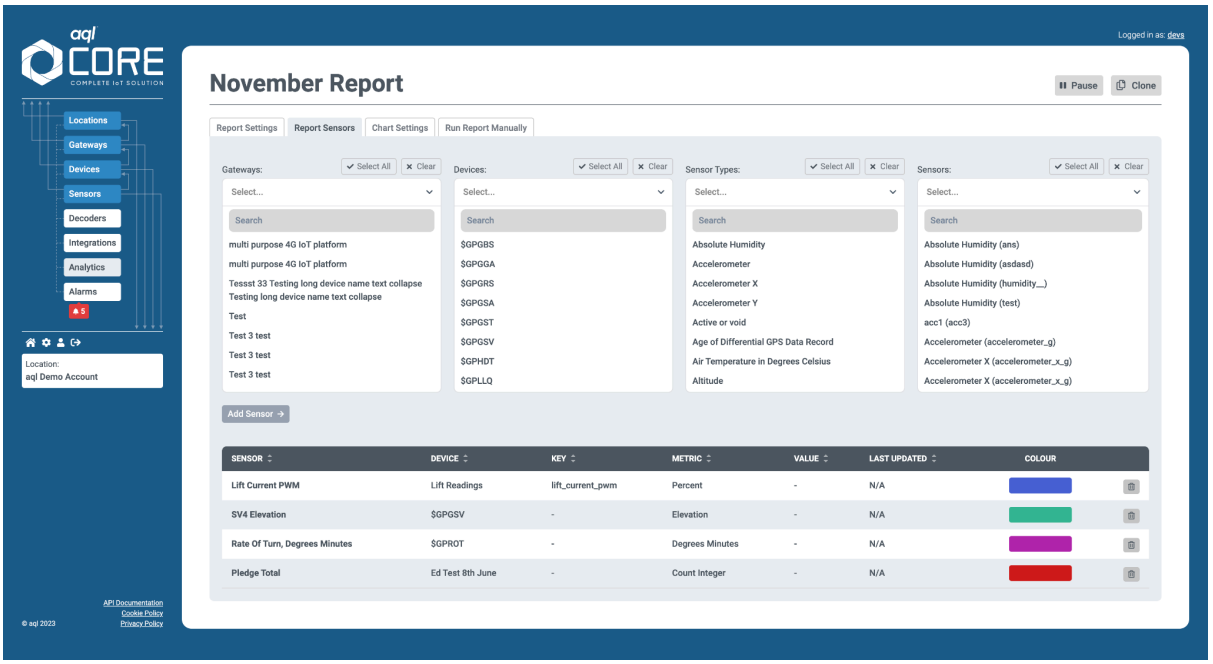


Step 3

From the "Configure" tab of your analytics: choose the data period, data aggregation, and granularity you want to use for your widget. "Mode" will need to be "Dashboard" for the purpose of this exercise.

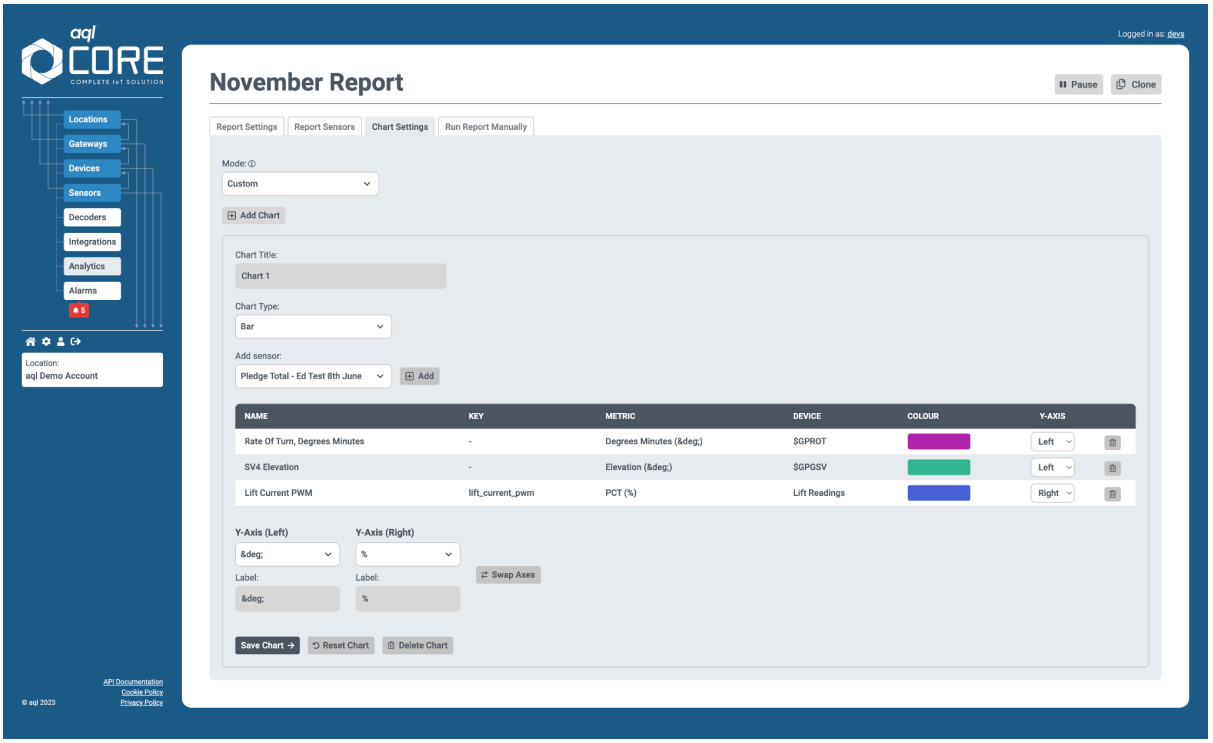
Step 4

On the second tab, select the sensors you wish to include in the widget. You can allocate individual colours to set themes of colours based on the type of sensor. Remember to select “change” after picking a colour. Try the search box to help filter a selection of sensors based on the sensor key. For example, you may want temperature and humidity sensors on a widget to have the same colours on the chart. When these render you can select the sensor from the location dashboard and the widget will auto filter to the chosen sensor.



Step 5

Finally, select the charts tab and select the type of chart you wish to render. If you have chosen multiple sensors you can add two Y axes to the widget. Select “Custom” under the mode dropdown for increased functionality, name the chart, make necessary amendments and then select “Save” to save chart.



Step 6

If you now navigate to the specified location you will see your custom analytics widget. You can create a custom dashboard by adjusting the size and position of the widgets. Try selecting a device from the devices widget and see how it updates your charts in real time.

Well done! Challenge 2 is now complete.