Smart Cities Hackathon
Tier 2 Challenge 7

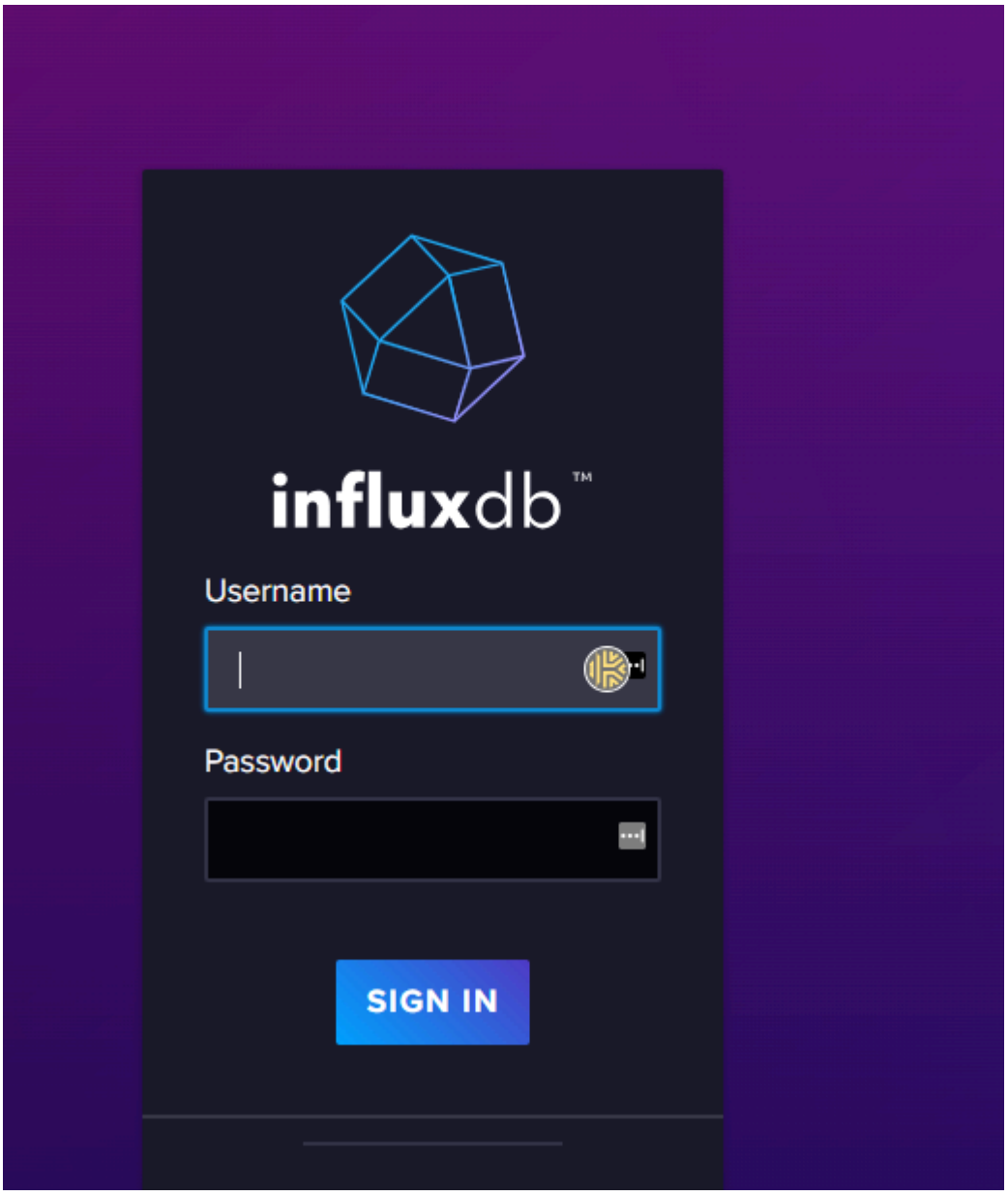
Tier 2: Challenge 7

Tier 2 Challenge 7: Create an InfluxDB live IoT Sensor Integration

This challenge will see you creating a new InfluxDB Integration and uploading values from the sensors you have chosen. Once the values have been uploaded we will create a dashboard for the readings within InFluxDB and Grafana which are the next challenges. You will learn how to use core.aql.com integrations, API's and InfluxDB as an IoT Data Storage.

Step 1

Navigate to influxdb.core.aql.com and log on using the credentials: 'team[n]', where n is your team number, and the password used to log into aql core.



Step 2

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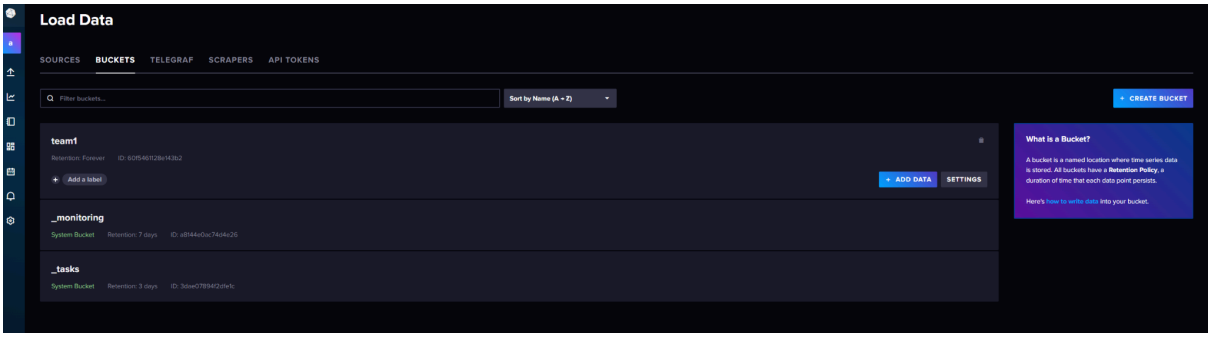
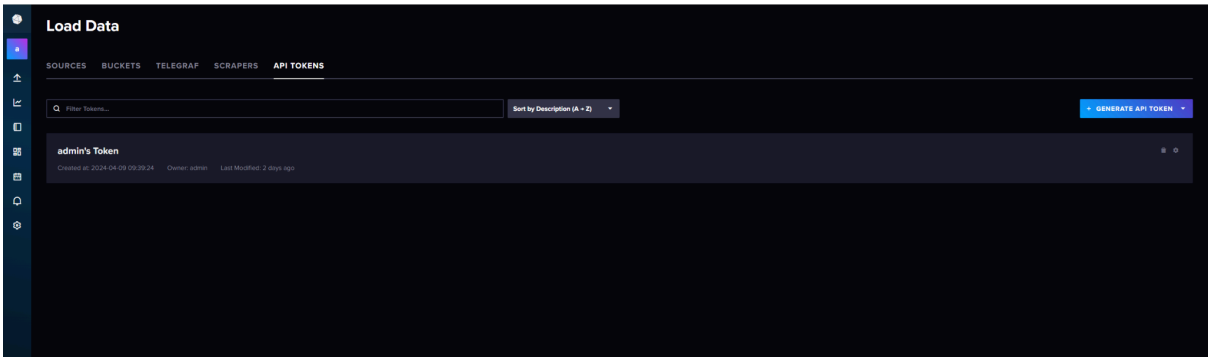
From the left-hand menu select “Load Data” and then “Buckets”.



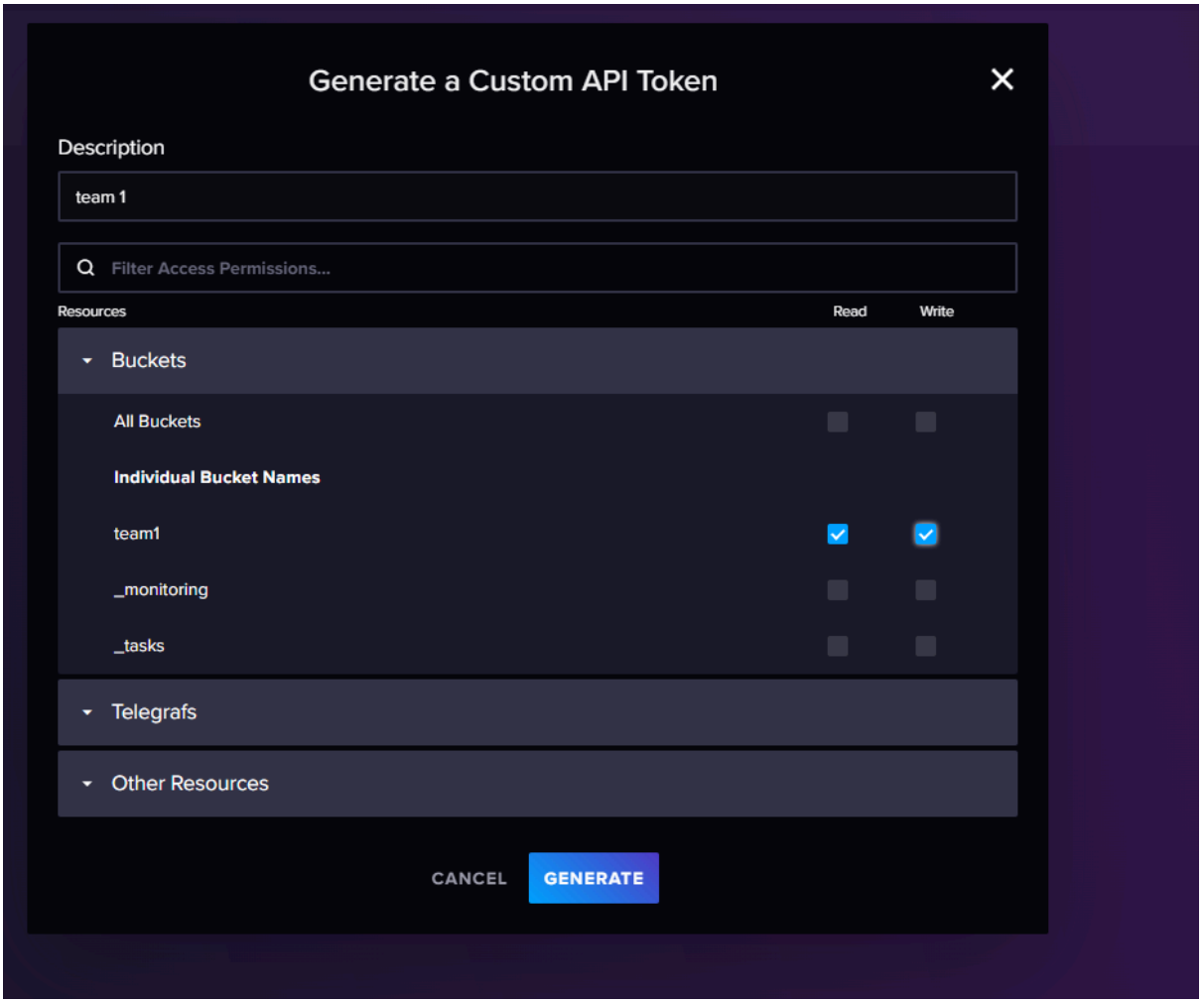
Create a new bucket. This can be any name you wish to use.

Step 3

Create a bearer token to authenticate the request from core.aql.com, select API Tokens from the menu.



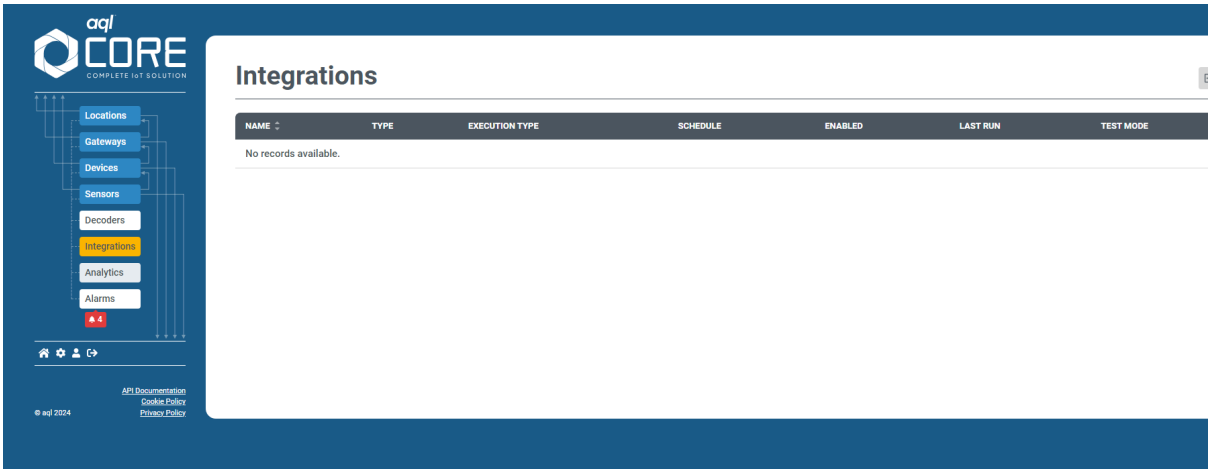
Choose “Custom” and select the bucket you created earlier. Make sure the auth token can read and write into your bucket.



Note the token, as it will be needed for future tasks.

Step 4

Navigate to core.aql.com and login with your team credentials. Select integrations from the left menu.



Step 5

Create a new integration and enter a unique name. Select InfluxDB and Live, making sure “Test Mode” is OFF;

Enter the following details

Url: http://datastore02.prod.nx5.iot.int.aql.com:8086

Token: The API token created in the earlier steps

Organisation: YOUR TEAM NUMBER for example team1

Bucket: The NAME of the bucket you’ve created

Step 6

Select the sensors you wish to upload to Influx DB integration. You can bulk select using the bulk integration option.

Step 7:

Next, ENABLE the integration from the option in the top right corner.

Step 8:

The next sensor reading uploaded will fire the integration and the output of this can be seen within the integration logs menu.

You can use the curl request we built in Challenge 1 to test the integration. You can check this has worked for the Influxdb explorer as well in Challenge 8.

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As you upload readings you will see the run appear in the logs, if there are any errors you can see these on the errors tab.

Well done you have now completed Challenge 7