



# Smart Cities Hackathon Tier 1 Challenge 4

### Challenge 4: Create a Twitter Integration

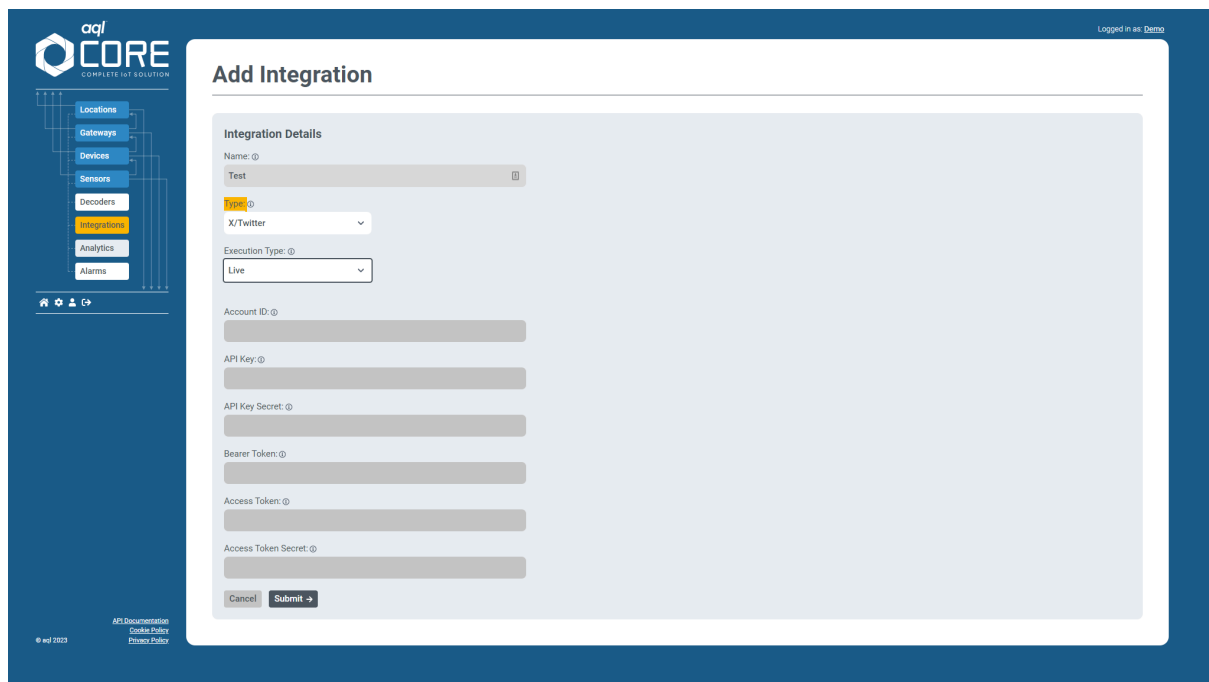
In this challenge, you are going to create an X/Twitter integration that will post a custom Tweet with your chosen sensor readings. The tweets will appear on our aqi Dev X/Twitter account (@DevAqi37849).

#### Step 1

Select “integrations” from the left menu

#### Step 2

Select “add integration”, and you will then see the below form to create an integration. Before entering the API details, enter a unique name for the integration, select X/Twitter as the integration type, and set the execution type to scheduled. Due to the possibility of lots of sensors sending readings through X/Twitter posts on the event day, we suggest selecting 5 minutes as the schedule time and limiting the amount of sensors you enable with the integration (see step 3):



The screenshot shows the 'Add Integration' form in the aqi CORE interface. The form is titled 'Add Integration' and contains the following fields:

- Name: (Text input field, value: Test)
- Type: (Dropdown menu, value: X/Twitter)
- Execution Type: (Dropdown menu, value: Live)
- Account ID: (Text input field, empty)
- API Key: (Text input field, empty)
- API Key Secret: (Text input field, empty)
- Bearer Token: (Text input field, empty)
- Access Token: (Text input field, empty)
- Access Token Secret: (Text input field, empty)

At the bottom of the form, there are two buttons: 'Cancel' and 'Submit'.

Next, enter the twitter details as per the challenge 4 printout

#### Step 3

Enable the sensors you wish to use with the integration by toggling the “Integrate” button.

## Sensors

**Filter Integrations**  
 Location:  Gateway:  Device:

INTEGRATE	SENSOR	KEY	DEVICE	LATEST VALUE	LAST UPDATED	DATA RETENTION
<input checked="" type="checkbox"/>	Particulate matter (PM2.5)	mc_pm2_5	White Rose Park Air Quality Sensor	55 µg/m3	17th Nov, 2023 - 08:38	90 days
<input checked="" type="checkbox"/>	Absolute Humidity	humidity	00137A10000178DF_demo	45.9 %	17th Nov, 2023 - 08:41	90 days
<input checked="" type="checkbox"/>	Absolute Humidity	humidity	00137A10000178DE_demo	36.2 %	17th Nov, 2023 - 08:44	90 days
<input checked="" type="checkbox"/>	Absolute Humidity	ambient_humidity	647FDA000000AC7D_demo	52.0 %	17th Nov, 2023 - 08:42	90 days
<input checked="" type="checkbox"/>	Absolute Humidity	ambient_humidity	647FDA000000AC9D_demo	57.5 %	17th Nov, 2023 - 08:44	90 days
<input checked="" type="checkbox"/>	Absolute Humidity	ambient_humidity	647FDA000000AB4D_demo	97.0 %	17th Nov, 2023 - 08:46	90 days
<input checked="" type="checkbox"/>	Accelerometer X	accelerationx	00137A10000033AB_demo	0.000 g	17th Nov, 2023 - 06:55	0 days
<input checked="" type="checkbox"/>	Accelerometer Y	accelerationy	00137A10000033AB_demo	0.000 g	17th Nov, 2023 - 06:55	0 days
<input checked="" type="checkbox"/>	Accelerometer Z	accelerationz	00137A10000033AB_demo	0.000 g	17th Nov, 2023 - 06:55	0 days
<input checked="" type="checkbox"/>	Analog Input Voltage	Aux2 Voltage	1D24E7_demo	3.30 V	17th Nov, 2023 - 08:37	0 days

Showing 1 to 10 of 1382 results

Results per page:

## Step 4

Select “Edit Post” to change the message that appears in the X/Twitter post. Clicking the plus values will allow you to insert variable values into the body of the post. These change depending on values with each sensor reading that triggers the integration. You can select a sensor to display example values and click “show post” to display how it will appear in the post on X/Twitter.

**aqi CORE**  
COMPLETE IoT SOLUTION

Logged in as: Demo

- Locations
- Gateways
- Devices
- Sensors
- Decoders
- Integrations
- Analytics
- Alarms

### aqi Core Demo Twitter Integration

**Edit Post Text**  
 Sensor:   
 Edit Post:   
 Post preview:

**Add a reading**

Type	Metric
Reading	Sensor Id
Sensor Name	Device Id
Device Name	Location Id
Location Name	Reading Date

Click “submit” to save your changes.

## Step 5

Enable your Integration.

Logged in as: Demo

Enable

Edit Integration

Edit Post

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**Bearer Token:**  
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**Access Token:**  
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Well done! You have now completed this challenge and your posts for the Hackathon can be seen on: <https://twitter.com/DevAql37849>