

Hackathon – Postman and General FAQ

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Hackathon – General FAQ

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Postman

[Download Postman](#)

The open source developer App [Postman](#) can enable you to develop Current by GE APIs. Postman is free to use, and can be downloaded directly onto your development machine or used as a Chrome extension.

To do either, go here: [Install Postman](#)

[Install Postman Collections](#)

You need to install collections into Postman for everything to work properly. Collections allow you to organize your calls (GET, POST, etc.) from a single location.

You should have the Current by GE Postman Collections.
Download the collections, click Run to open, etc.

[Special Note: Simulated Data](#)

Current by GE will **not** provide excel spreadsheets containing static metadata or simulated data; these APIs work best with simulated or live data.

The use of the postman collections will provide the user with simulated data (metadata such as assets, etc., vs events or media) along with the use of seed data from a data simulator.

- SEED DATA SIMULATOR SITE: <https://github.com/CurrentByGE/ie-angular-cities-ref-app>

Login (Email): hackathon

Password: @hackathon

Login to the simulator, and start using it. Data will start accumulating. After about 5 minutes, start running APIs in that environment.

[Directions for updating the Postman token](#)

Easy, generate the client token and use it. Easy, right?

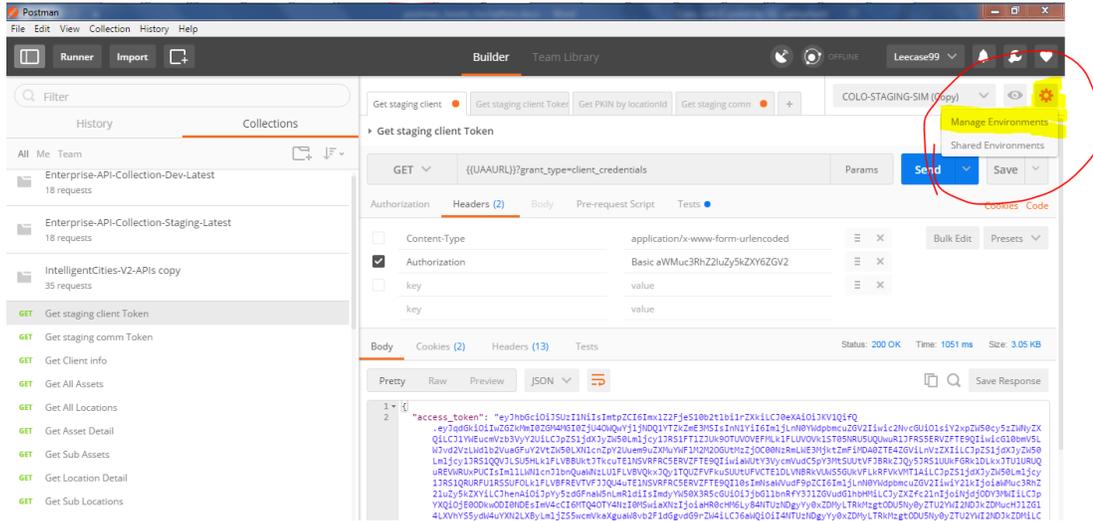
First step: Update staging client token

1. Make sure you have selected the correct Environment (top Right);
2. Authorization tab: set to No Auth.
3. **Headers tab:** use pre-defined Basic Auth. key < **aWMuc3RhZ2luZy5kZXY6ZGV2** >
4. The Get Call uses this URL for the token: `{{UAAURL}}?grant_type=client_credentials` The UAAURL should already be in the Environment key value variables, and will populate this variable.
5. If the UAAURL is missing or not in variables, follow this process:

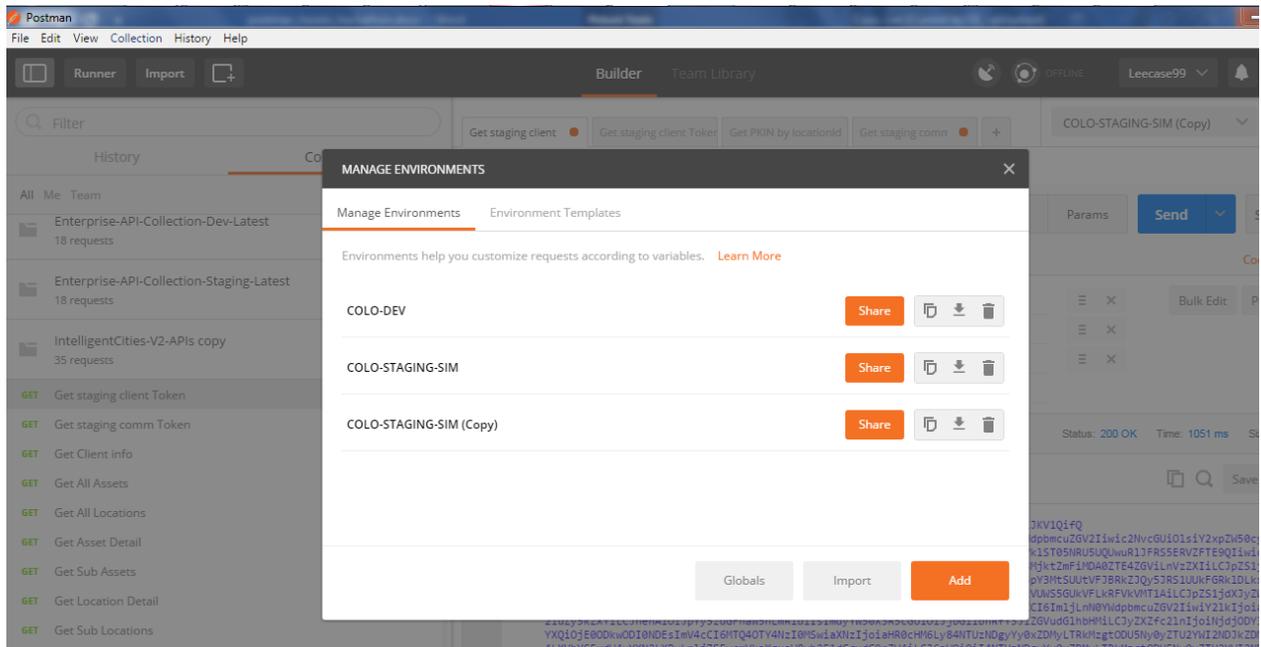
[Navigate to environment variables...](#)



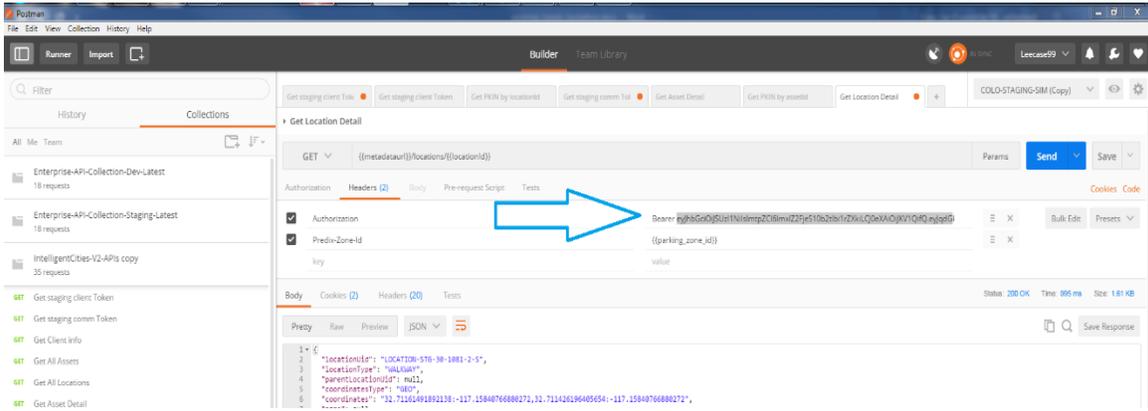
- a. Click on the sprocket icon (far upper right); click **Manage Environments**;



- b. Click on the Environment name you use to **Edit Environment**. This will bring up a list of key value variables.



- c. The Environment you should be using to access simulated data is: { *COLO-STAGING-SIM* }.
- d. The **UAAURL** field should be: <https://8553482c-1d32-4d38-8597-2e56ab642dd3.predix-uaa.run.asv-pr.ice.predix.io>
- e. Or :
- f. <https://8553482c-1d32-4d38-8597-2e56ab642dd3.predix-uaa.run.asv-pr.ice.predix.io/oauth/token>
- g. If not, then copy and paste the address above into the UAAURL variable field, then click **Update**.
- h. Click 'X' to exit.
- i. In Postman, click the blue **Send** button. This will generate the client token.



Hackathon FAQ

Is there a way to get started using the APIs?

Yes, see the *Getting Started with Intelligent Environments* documentation. This will cover the first things you need to set up to get started.

Start Here:

https://ie-cities-docs.run.aws-usw02-pr.ice.predix.io/#Chunk746712082.html#concept_4b9e9f9b-fb62-46e2-9f10-d97e796f66e6

You can also get an overview on how the APIs work in the General Overview section of the API documentation here:

<https://ie-cities-docs.run.aws-usw02-pr.ice.predix.io/#Chunk1001488041.html>

How can I run the APIs?

The APIs listed on the Predix.io catalogue essentially contain simulated data, so once you can ping them, you will be able to get simulated data back as a response. Currently, we only have 8-9 assets in the simulator:

<https://ie-cities-docs.run.aws-usw02-pr.ice.predix.io/#Chunk1001488041.html>

Feel free to expand and make your own data for as many assets as you want. Just follow the pattern that we gave you and you can create your own simulated data.

FAQ -- RECIPES

How long have these cars been parked?

As an example, a Scenario you may come up with could be:

“I would like to see how long the cars in all city parking spaces have been parked during the lunch hour (12-1 PM). Right now, it is 1:15 PM. “

- Run historical data PKIN API by location Timestamp: 11:45 AM
- Run historical data PKIN API by location Timestamp: 12:01 PM
- Run PKOUT API by location Timestamp: 1:00 PM
- RUN PKIN API by location Timestamp: current time (@ 1:15 PM)

Then what do I do? First, compare the datasets, extract what is similar along the compared files – these will be the cars that have remained parked over this total time-period. These assets may be liable for a parking ticket!



Simulated Parking Data

Do you have simulated parking data for our city?

Right now, our team is developing an app that utilizes available parking spaces, and we want to be able to show local parking areas in the app.

Currently, we do not have parking data for cities other than the simulated data we have provided which has environmental data from the City of San Diego.

Here is a workaround for all hackathon users to use our parking APIs with simulated data:

- *Obtain asset IDs*
- *Call the Car-in & Car-out APIs with the asset IDs; they can obtain the image on demand from the parking events.*
- *Ignore the geo-coordinates. This will give you a basic parking simulation.*

If you choose, you can make a copy of the dataset and replace the geo-coordinates with parking geo-coordinates from your own city. Each `geoCoordinates` field **MUST** match a unique `locationUid`, and contains 4 distinct geo-coordinate points that denote a parking space.

Sample code from API:

```
"geoCoordinates": "32.7137086:-117.1568737,32.7136872:-117.1568726,32.7136871:-117.1569479,32.7137092:-117.1569459",
```

As long as you use the same `geoCoordinates` format and make sure each `locationUid` matches the unique set of `geoCoordinates` for a parking spot, you can create a model showing parking activity for your city or town.

Weather Information

- *If you also want weather information, you can call the Environmental API using the asset IDs.*

References

Intelligent Environments – Cities and Enterprises

If you are a developer, or want to build in-house applications, you can use the **Intelligent Environments by Current** to enable a valuable set of location-based services for your organization and your clients.

Start by looking at the CityIQ IoT Platform resources here:

<http://developer.currentbyge.com/cityiq>

On this site, Current reveals the capabilities of the overall Platform and its APIs, Reference Apps, and how to apply for a Business Partnership with Current.





API documentation

Cities – API online help:

https://ie-cities-docs.run.aws-usw02-pr.ice.predix.io/#Chunk746712082.html#concept_4b9e9f9b-fb62-46e2-9f10-d97e796f66e6

Enterprises – API online help:

https://ie-enterprises-docs.run.aws-usw02-pr.ice.predix.io/#Chunk1917857168.html#concept_4b9e9f9b-fb62-46e2-9f10-d97e796f66e6

