



Research APIs

v 1.1

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Maintainers

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Changelog

v1.0

- Launch the research-api for the first time with 5 basic APIs

About this API

Server

<https://staging.core.services.bwpa.io>

API Prefix

[research-api](#)

Method of HTTP Request

[GET](#)

Authentication

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Example of Usage

Accessing "fighters" API

GET https://staging.core.services.bwpa.io/research-api/fighters?token=SECRET_KEY_HERE

Tips

- The first two APIs (fighters and assessments) are raw data without scoring calculations, use these APIs when you want to work on the raw form of the data without touching our scoring system
- The rest of the APIs may be based on certain formulas of scoring and analysis, we will provide more details regarding the used formulas in future versions of this document.

Fighters API

API Name

fighters

URI

GET .../research-api/fighters?token=SECRET_KEY_HERE

Description

This endpoint retrieves information about fighters, including their general health conditions, heart medication, Parkinson's medications and devices they use...etc

Also it returns the ids of the assessments of each of the fighters, so you can use them in the "assessments" API.

Response Parameters

Parameter	Type	Notes
count	Integer	<i>Count of returned research-eligible fighters</i>
fighters	Array of objects	<i>Anonymised fighter's data including links to their eligible assessments</i>

Assessments API

API Name

assessments

URI

GET .../research-api/assessments/<ASSESSMENT_ID>?token=SECRET_KEY_HERE

Description

This endpoint retrieves information about assessment by its id

Response Parameters

Parameter	Type	Notes
date	String (date)	<i>When this assessment took place</i>
pdq	Object	<i>Each has "status" property and "questions" object, which contains the questions itself and the fighter answers</i>
tug	Object	
s2s	Object	
fab	Object	
postural	Object	
observation	Object	
profile	Object	

System Stats API

API Name

system-stats

URI

GET .../research-api/system-stats?token=SECRET_KEY_HERE

Description

This API provides an overview of key statistics related to fighters, assessments, locations, members, and coaches in the system.

Response Parameters

Parameter	Type	Notes
totalCreatedFightersCount	number	
totalCreatedActiveFightersCount	number	
totalCreatedInActiveFightersCount	number	
totalCreatedAssessmentsCount	number	
totalCreatedSmartAssessmentsCount	number	
totalCreatedQuickAssessmentsCount	number	

Progression Stats API

API Name

progression-stats

URI

GET .../research-api/progression-stats?token=SECRET_KEY_HERE

Description

Returns data that is classified by “Stages”, it calculates real-time formulas to try to understand the progression status of each stage.

Response Parameters

Parameter	Type	Notes
totalCount	number	Total number of fighters at the specified stage
averageAge	number	Average age of fighters in years at the specified stage
averageDaysSinceDiagnosis	number	Average number of days since diagnosis at the specified stage
averageDaysSinceJoined	number	Average number of days since joining the program
standingJump	Object	Each has three counters of fighters (in certain stage) who : <ul style="list-style-type: none"> - Improved - Even - Declined
turn360	Object	
s2s	Object	
tug	Object	
balance	Object	

PowerBi Sandbox

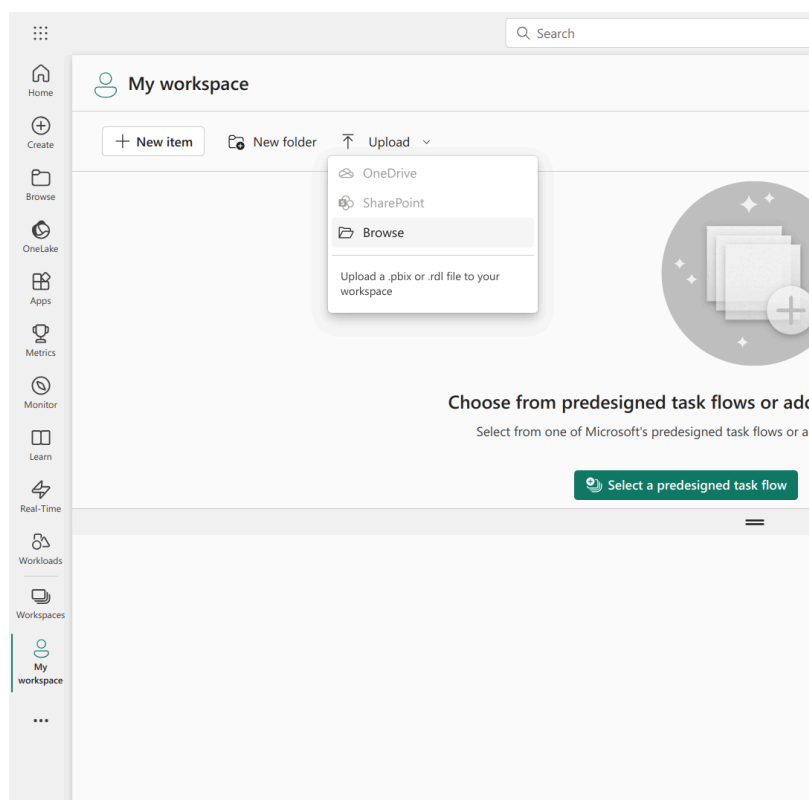
Motivation

To provide a sandbox and starting points for those who want to access the data using PowerBi, it uses the same research-api in this document, data can be refreshed manually or set a periodic refresh setting in PowerBi semantic model.

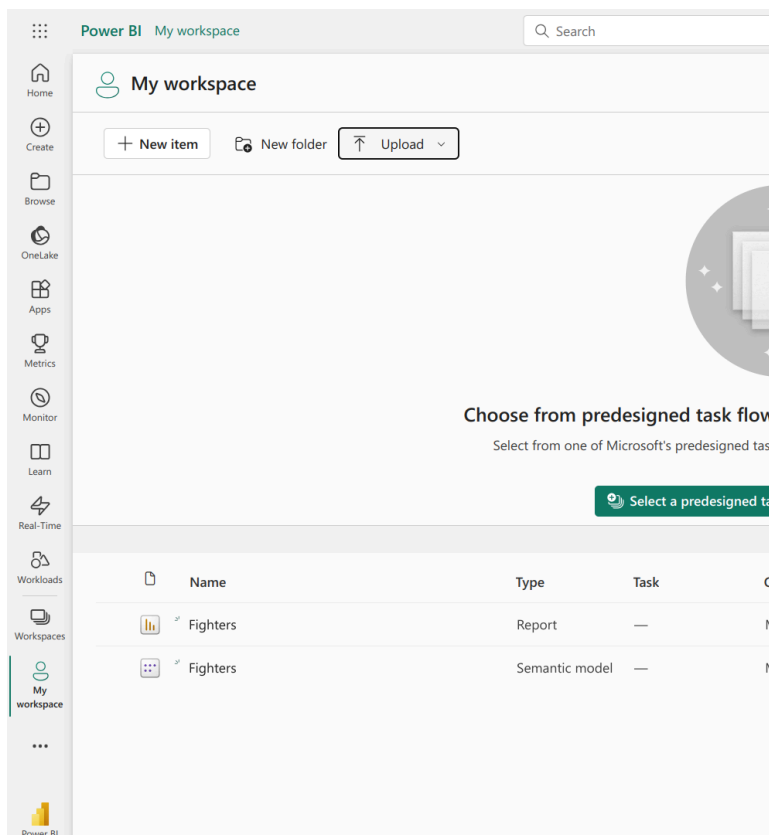
NB. You must obtain a researcher token from the BWPA organization to be able to fetch the data and activate the sandbox.

Steps to activate

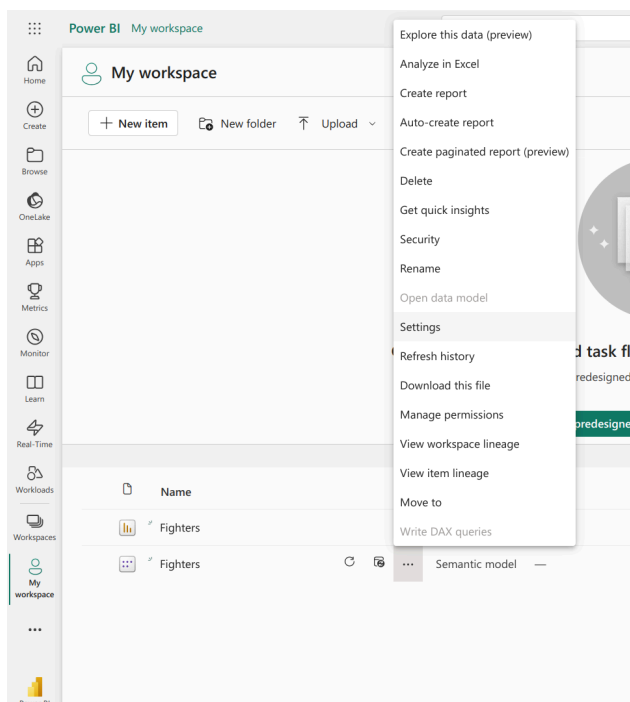
1. Upload the latest pbix file from the project's Github repository



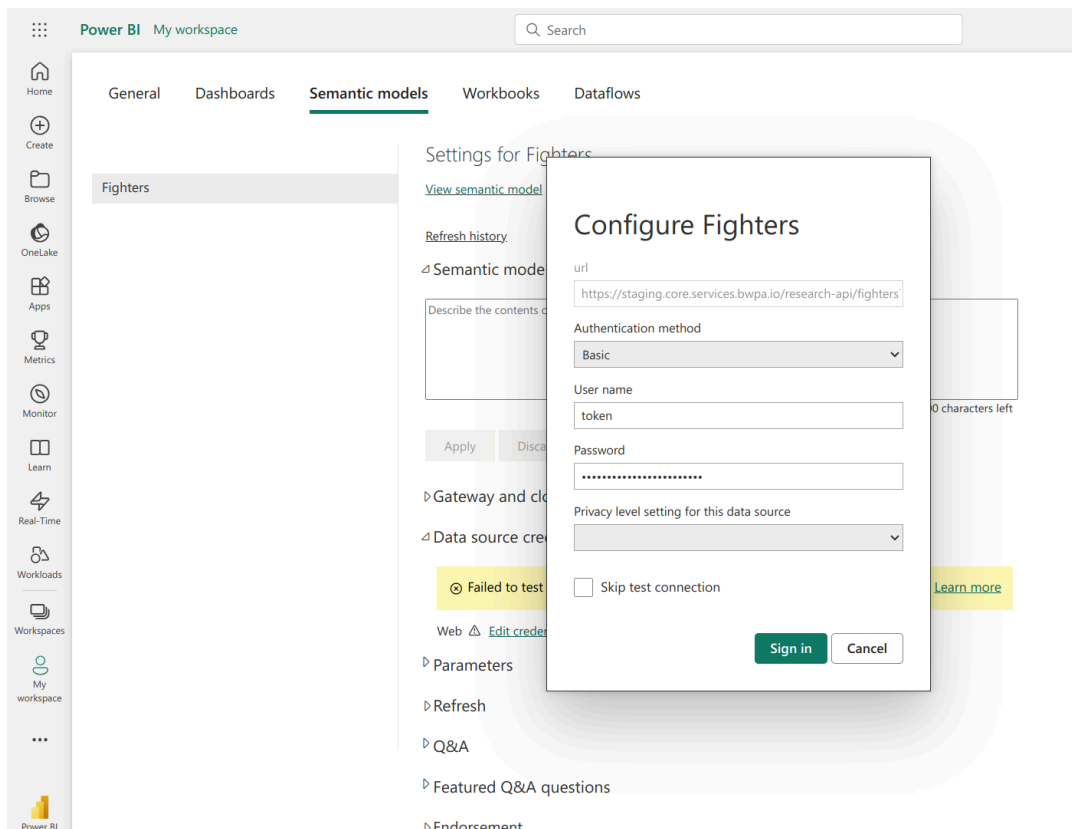
2. You will see the Semantic model in the designated workspace



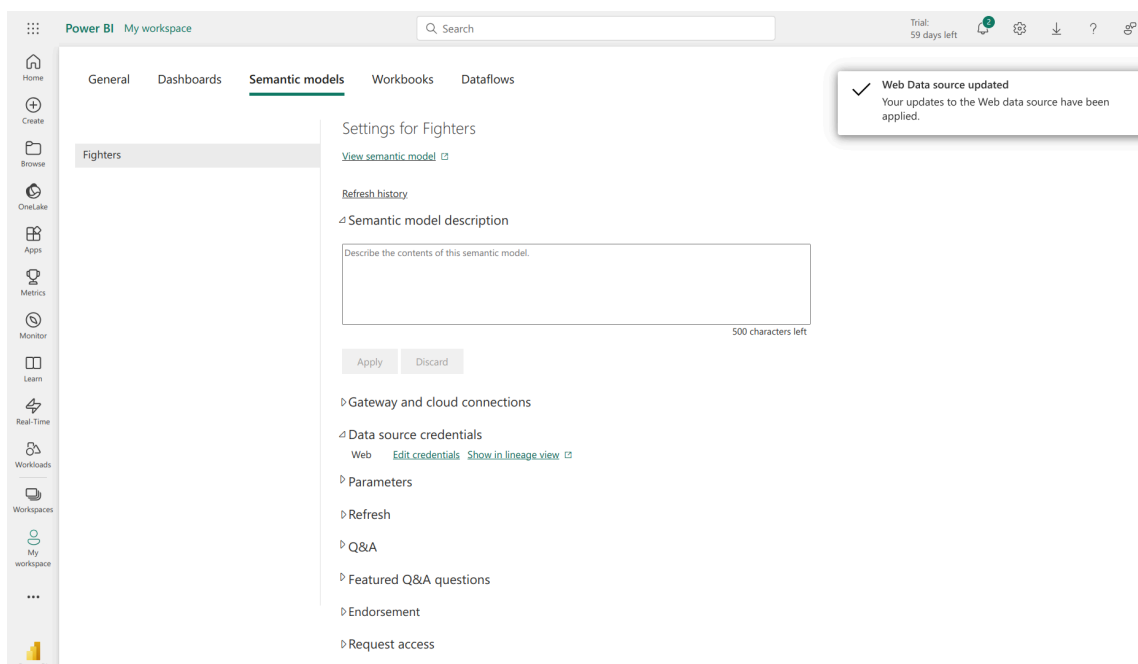
3. You need to modify the settings of the semantic model by adding the provided security token that access our services



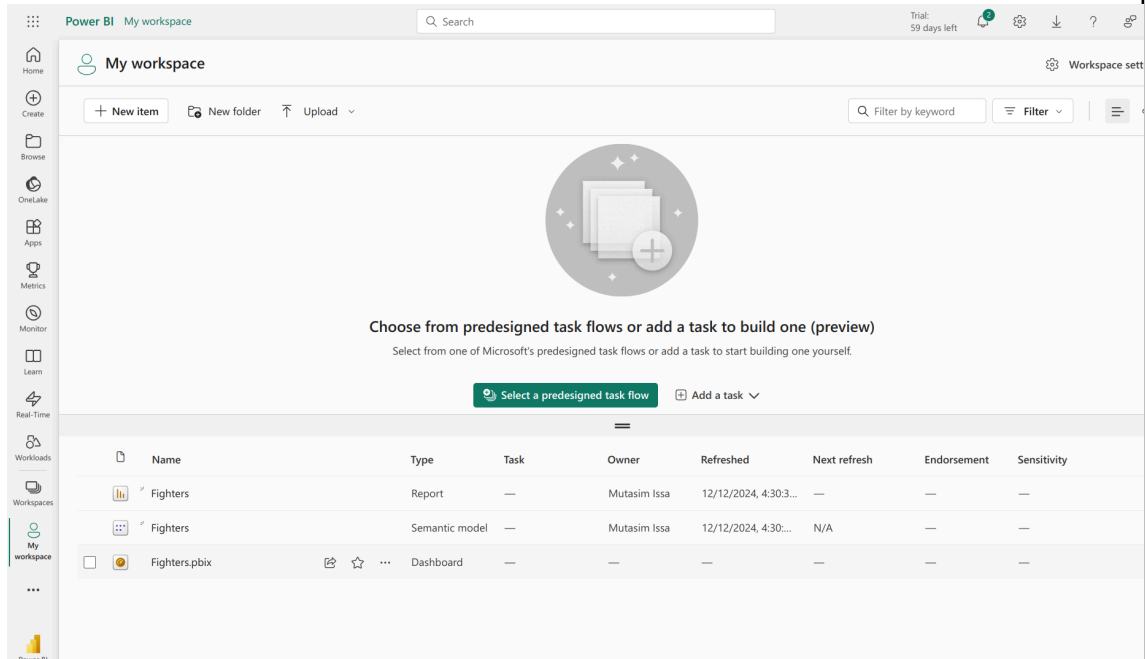
4. Edit the credentials as shown here, the password should be the provided security token from BWPA



5. You should see the success message that web data source updated



6. Now your designated workspace will be updated with the dashboard



Power BI My workspace

Choose from predesigned task flows or add a task to build one (preview)

Select from one of Microsoft's predesigned task flows or add a task to start building one yourself.

Select a predesigned task flow Add a task

Name	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity
Fighters	Report	—	Mutasim Issa	12/12/2024, 4:30:3...	—	—	—
Fighters	Semantic model	—	Mutasim Issa	12/12/2024, 4:30:...	N/A	—	—
Fighters.pbix	Dashboard	—	—	—	—	—	—

7. Access the dashboard and start create your own dashboards

