

Postman Setup for NYISO Bidding Upload Download (BUD) API

The following document will provide a quick setup reference of Postman for the purpose of accessing NYISO BUD API.

The process will be as follows:

1. Open Postman
2. Add a Collection
3. Add Request Details
4. Add Authorization
5. Add Certificate
6. Send/Receive Request

Step 1. Open Postman

Upon opening Postman, you should see something like the image down below (Fig. 1)

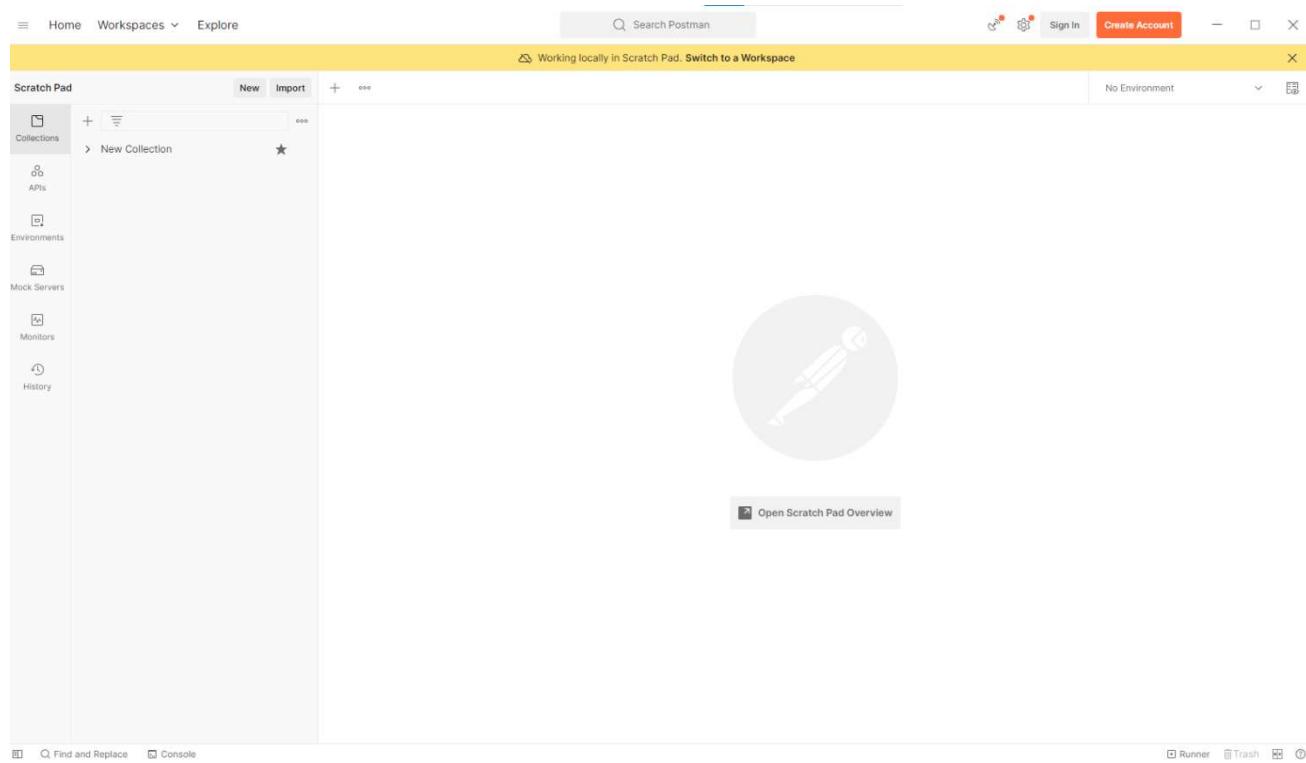


Fig. 1

Step 2. Add a Collection

Next, we will be adding a Postman “collection”, to do so click the “+” sign in the upper left-hand corner (Fig. 2).

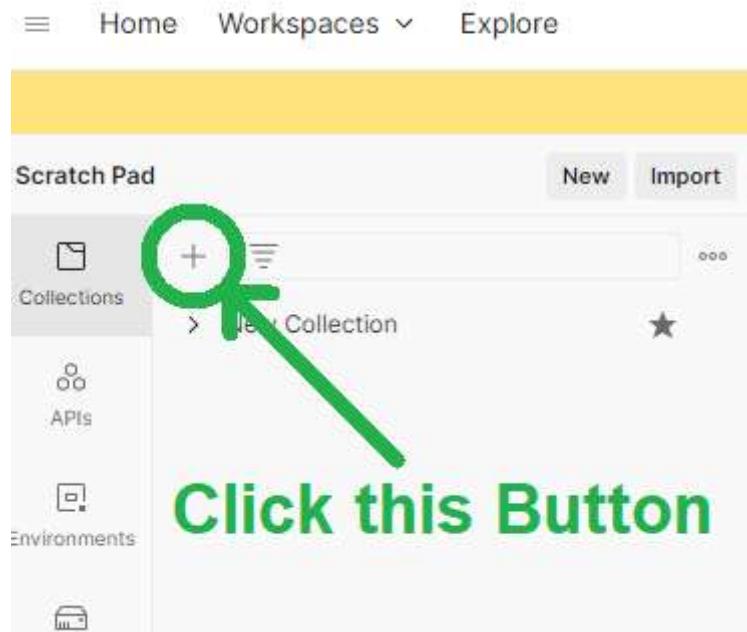


Fig. 2

At this point we can do a few things...

For one we can name this collection to make it distinct from future collections by clicking on the ellipsis (...) next to the collection (Fig. 3) and select “Rename”, this will make it easier for future work and keeping things organized.

After setting this collection to an appropriate name (such as “Updown-api Test Collection”) we can continue to add a request. We can do so by again clicking on the ellipsis but this time selecting “Add Request” instead (Fig. 3).

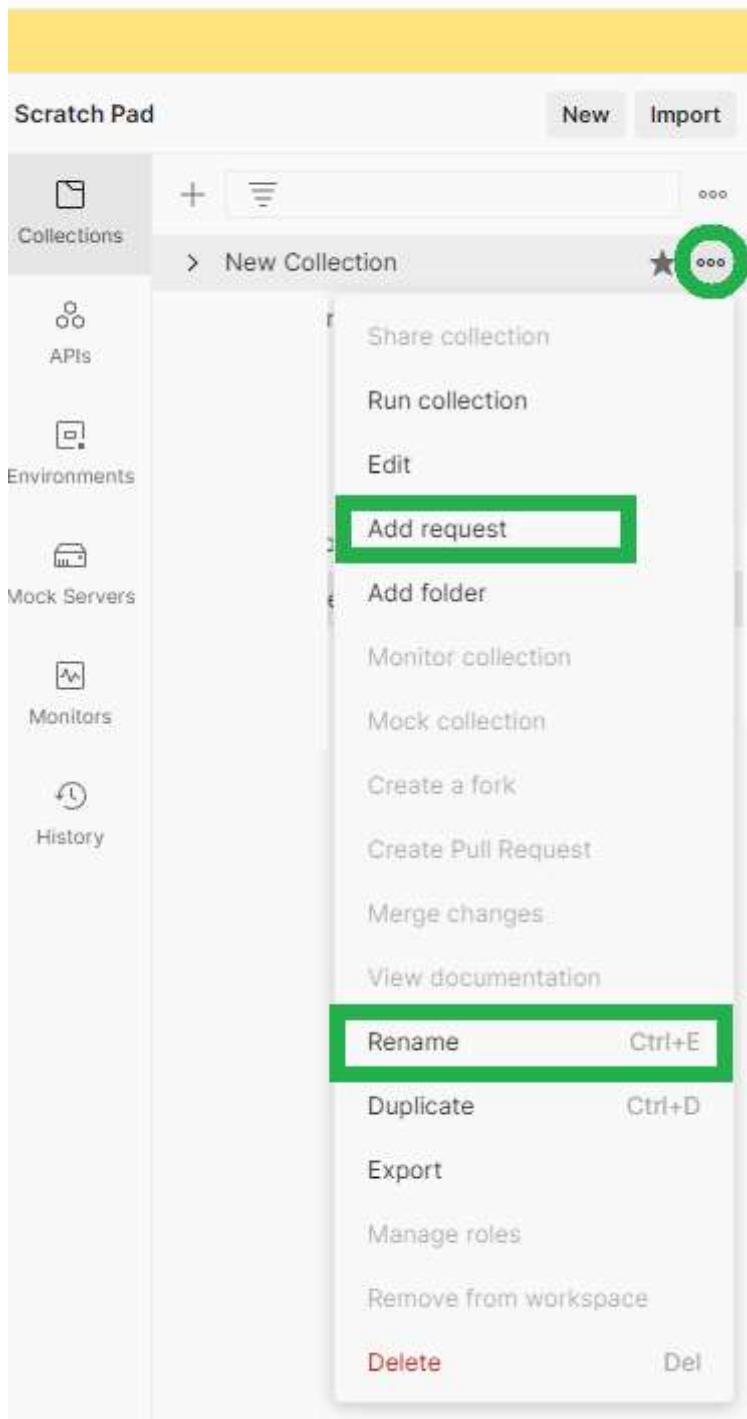
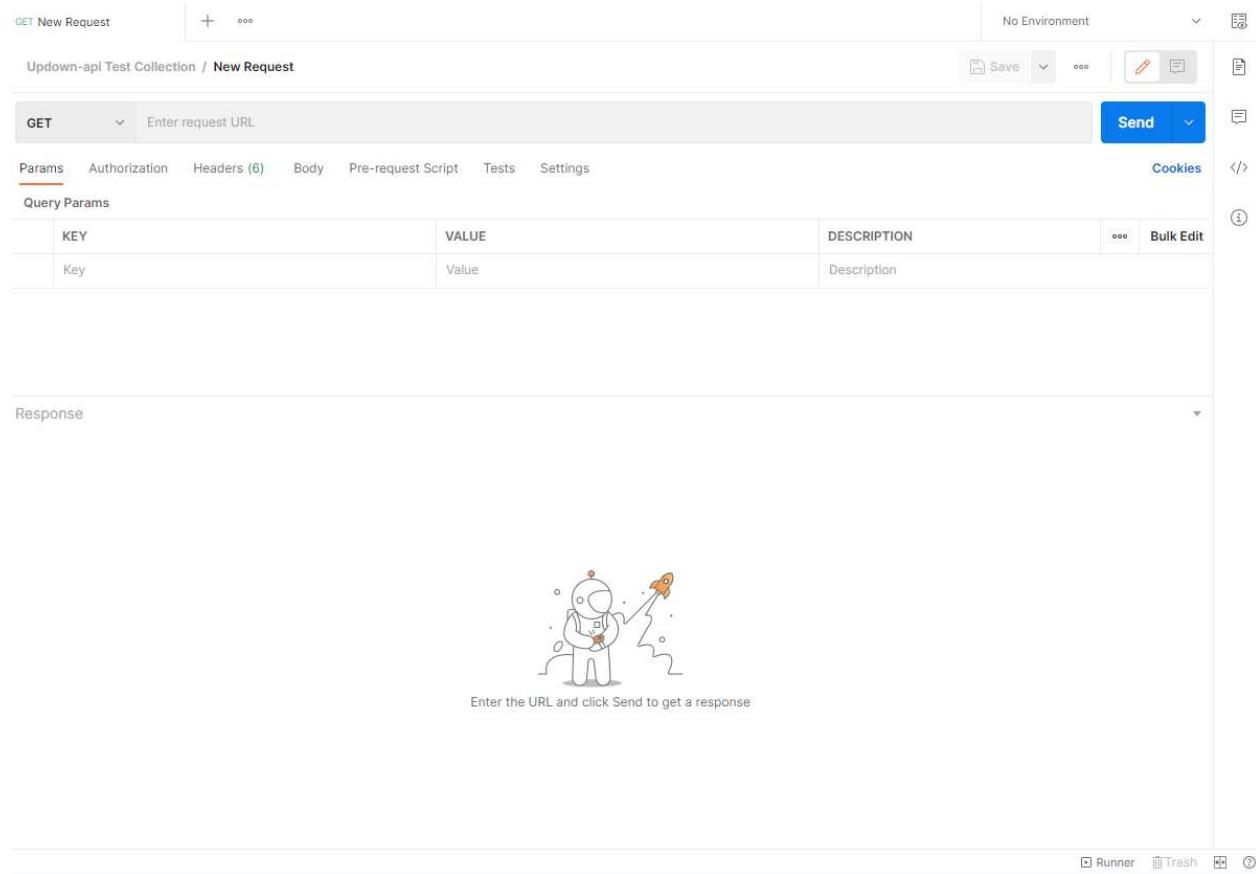


Fig. 3

Step 3. Add Request Details

Upon creating a new request, you should see something like the below image (Fig. 4).



The screenshot shows the Postman application interface. At the top, there is a header with 'GET New Request' and a '+' button. The main title is 'Updown-api Test Collection / New Request'. Below the title, there is a 'Send' button and a 'Save' button. The request type is 'GET' and the URL is 'Enter request URL'. Below the URL input, there are tabs for 'Params', 'Authorization', 'Headers (6)', 'Body', 'Pre-request Script', 'Tests', and 'Settings'. The 'Params' tab is selected. A table for 'Query Params' is shown with one row: 'Key' (Value: 'Value') and 'Description' (Value: 'Description'). On the right side, there are icons for 'Cookies', 'Runner', 'Trash', and a help icon. Below the table, there is a placeholder text 'Enter the URL and click Send to get a response' with a cartoon character of an astronaut. At the bottom, there is a footer with 'Runner', 'Trash', and a help icon.

Fig. 4

Firstly, we are going to name our request, this allows us to have multiple requests under one collection and keep better organized. For the sake of this example, we will call this “load-detail”, we can do this by clicking the “edit” pencil icon next to “New Request” (Fig. 5).



The screenshot shows the Postman application interface. The title bar now says 'Updown-api Test Collection / New Request' with the 'New Request' part highlighted and circled in green. The rest of the interface is identical to Fig. 4, including the 'Send' and 'Save' buttons, the 'GET' request type, and the 'Params' table.

Fig. 5

Next, we will add the request endpoint, in the “Enter request URL” bar, add the endpoint:

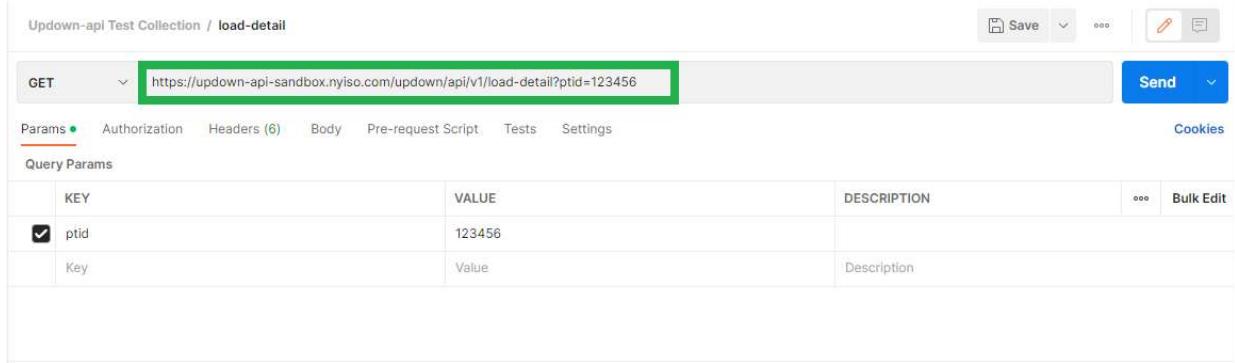
<https://updown-api-sandbox.nyiso.com/updown/api/v1/load-detail?ptid=123456>

(Do keep in mind, for the current test effort this is the proper URL, but this may be subject to change in future releases, such as when moving to Market Trials)

Where “12345” is a PTID you have read access to in Marketplace/CBMS.

If you did this correctly, under “Query Params” underneath the request you should see a row with a “KEY” of “ptid” and a “VALUE” of “12345” (Fig. 5).

Note for the purpose of this endpoint, you should be using the “GET” request, selectable in the upper left-hand corner. Postman should select this type by default (Fig. 5).



Upsilon Test Collection / load-detail

GET https://updown-api-sandbox.nyiso.com/updown/api/v1/load-detail?ptid=123456

Params (1) Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	ptid	123456			
	Key	Value	Description		

Fig. 5

Step 4. Add Authorization

Next step will be to add “Basic Auth”. By clicking the “Authorization” tab (Fig. 6) we will be given a few options in the “Type” dropdown under it. For updown-api select “Basic Auth” and in the Username and Password prompts enter your Marketplace credentials.

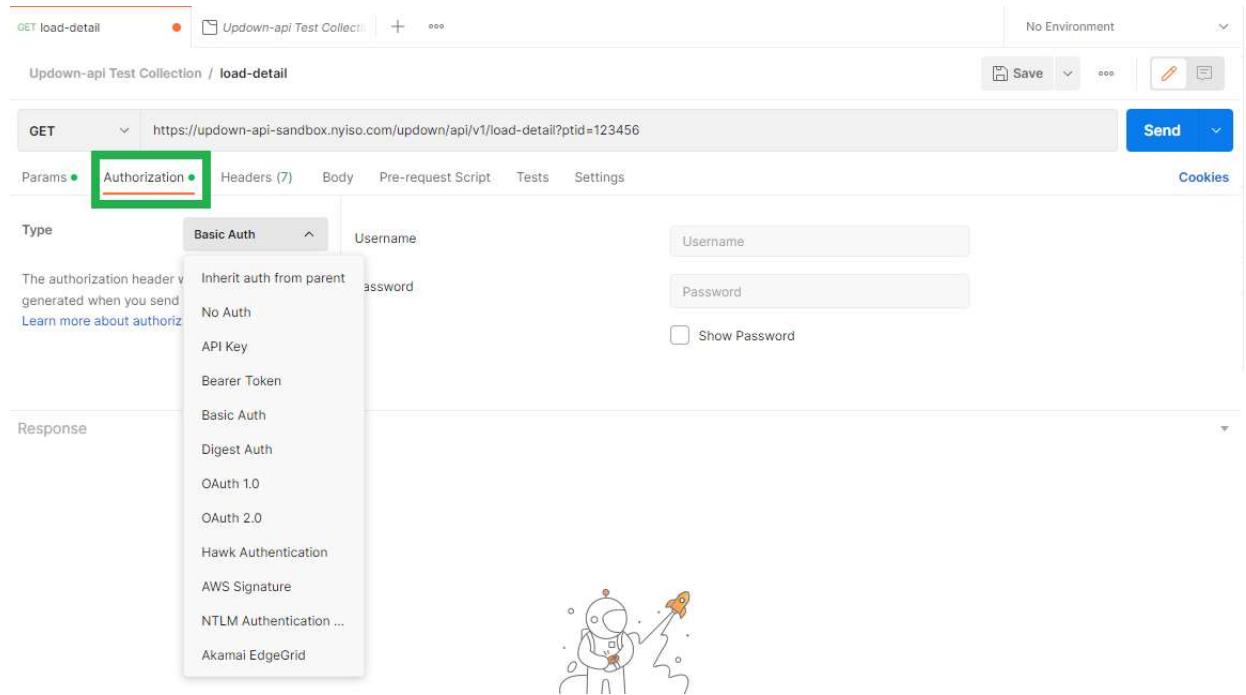


Fig. 6

Step 5. Add Certificate

Now that we have our initial GET request ready to submit, we need to make sure we are sending the proper certificates to updown-api to access our data.

We will first click the upper left most “burger” icon, then “File”, then “Settings” (Fig. 7).

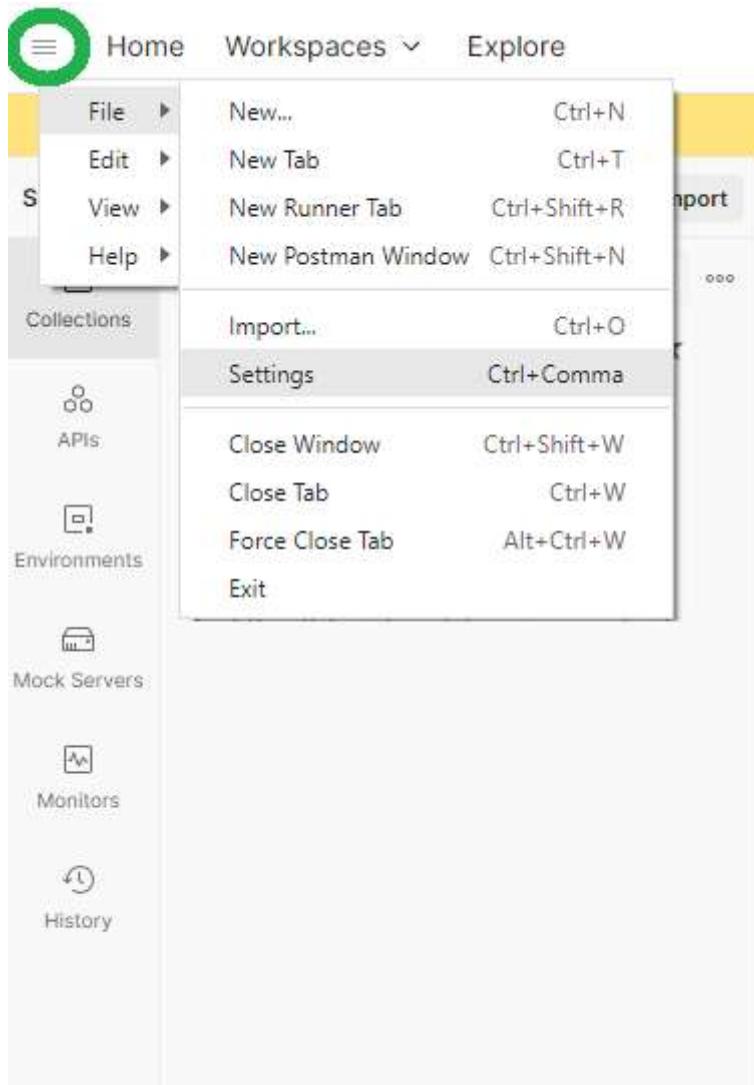


Fig. 7

We should now be seeing the following “Settings” menu, select “Certificates” from the top selection bar (Fig. 8) and click “Add Certificate”.

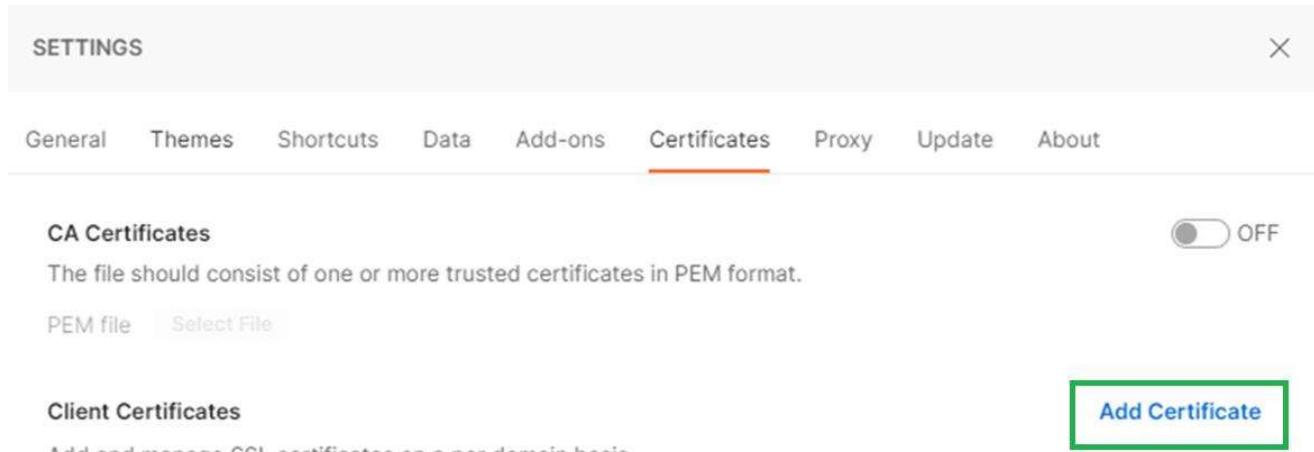


Fig. 8

First, we will select “Host” so Postman can recognize when to send our certificate for a request (Fig. 9).

In the “Host” portion we will enter:

Production: updown-api.nyiso.com

Sandbox: updown-api-sandbox.nyiso.com

Next, we will select the “PFX file” option to select the certificate from our file browser, followed by entering our certificates passphrase (Fig. 9) (note this is a different user secret than the one you entered for the Username/Password section under “Basic Auth”).

If you do not currently have the “.pfx” file on your machine, or are unaware of where to get it, you can export it to a folder by following along with these guides:

Windows:

[Export a certificate with its private key | Microsoft Learn](https://learn.microsoft.com/en-us/powershell/module/microsoft-powershell-certificate-management/export-certificate?view=powershell-7.2)

Mac:

[Import and export keychain items using Keychain Access on Mac - Apple Support](https://support.apple.com/guide/keychain-access-import-export-keychain-items-mac-mk34711)

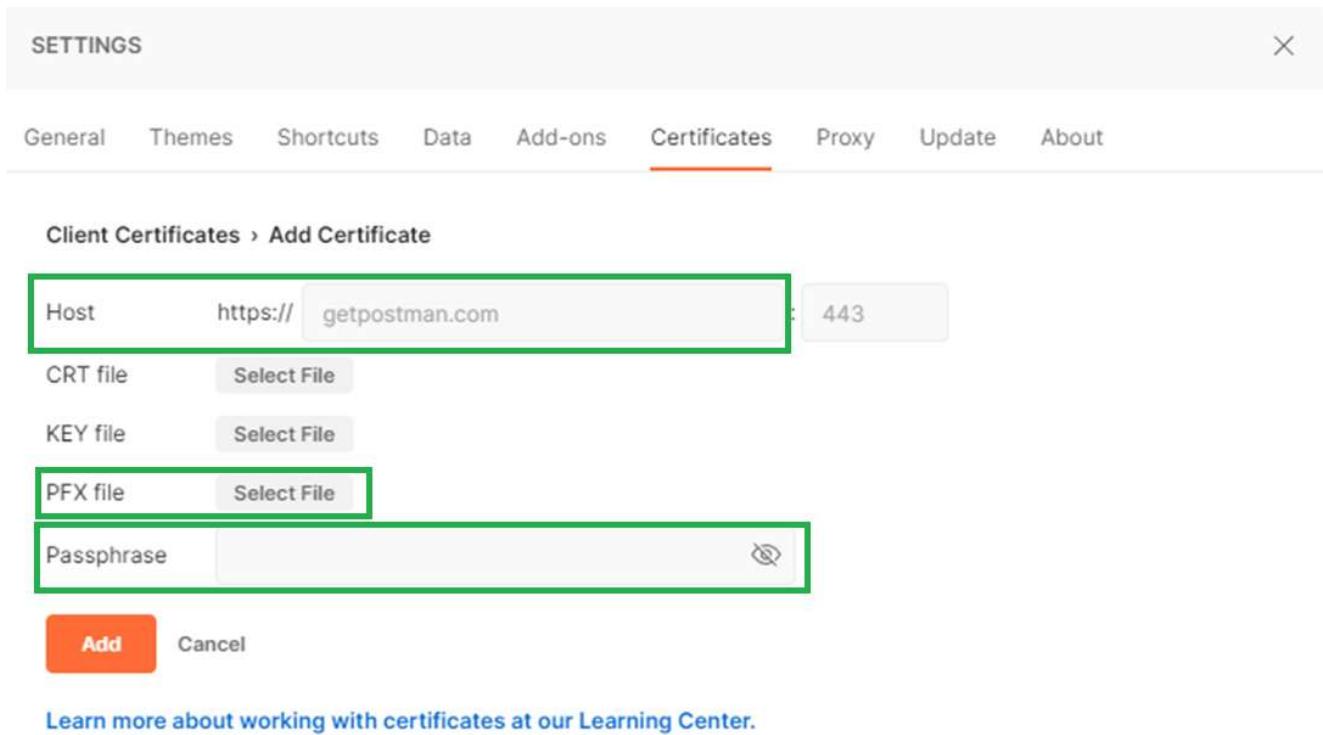


Fig. 9

You should now see something like Fig. 10 in your “Certificates” tab.

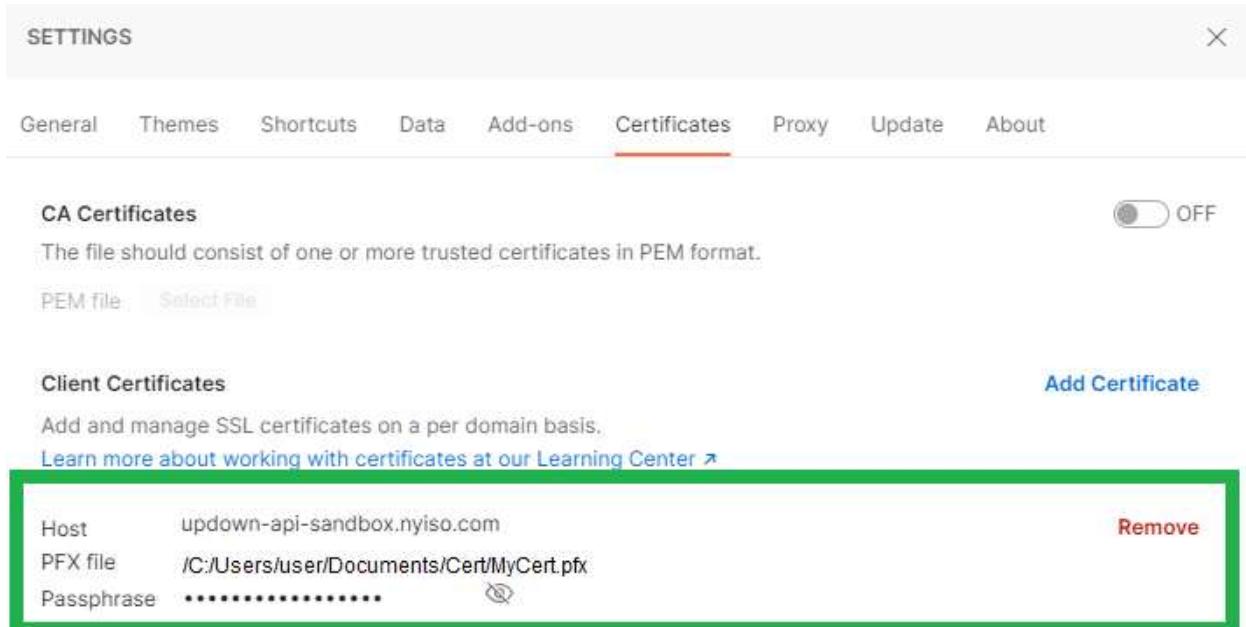
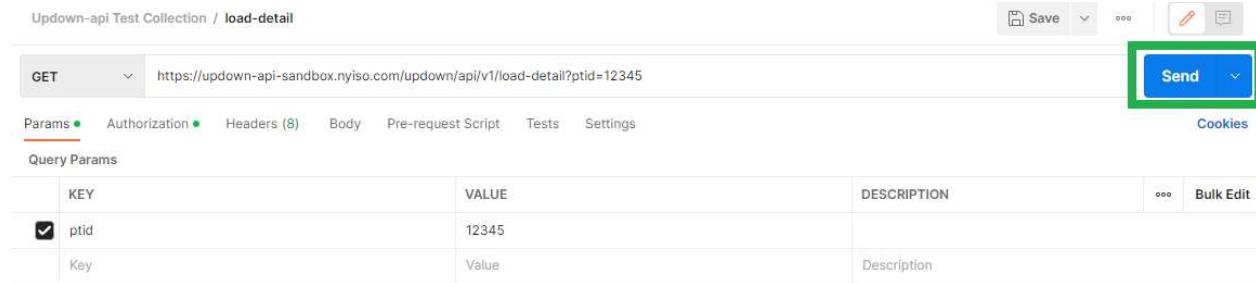


Fig. 10

Step 6. Send/Receive Request

Now all you should need to do is click “Send” (Fig. 11) to send and receive data from sandbox.



Updown-api Test Collection / load-detail

GET https://updown-api-sandbox.nyiso.com/updown/api/v1/load-detail?ptid=12345

Send

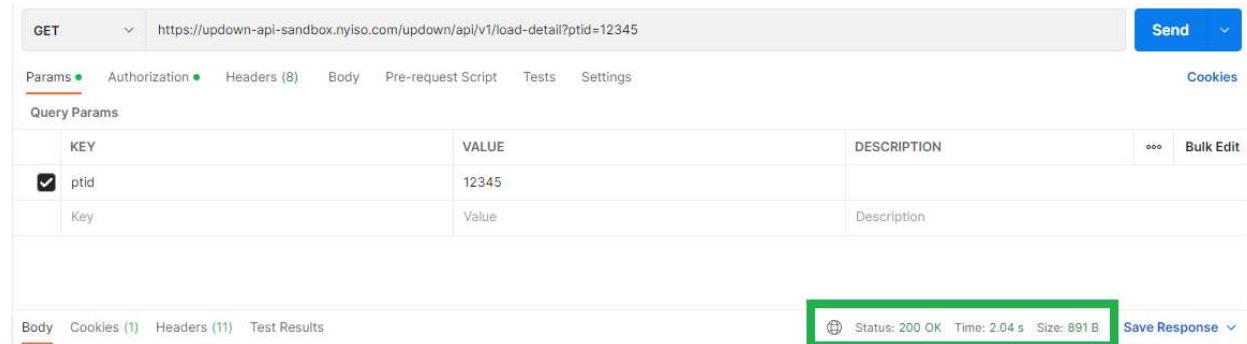
Params • Authorization • Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> ptid	12345			
Key	Value	Description		

Fig. 11

If everything is set properly you should receive a “200 OK” status as seen in Fig. 12.



GET https://updown-api-sandbox.nyiso.com/updown/api/v1/load-detail?ptid=12345

Send

Params • Authorization • Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> ptid	12345			
Key	Value	Description		

Body Cookies (1) Headers (11) Test Results

Status: 200 OK Time: 2.04 s Size: 891 B Save Response

Fig. 12